

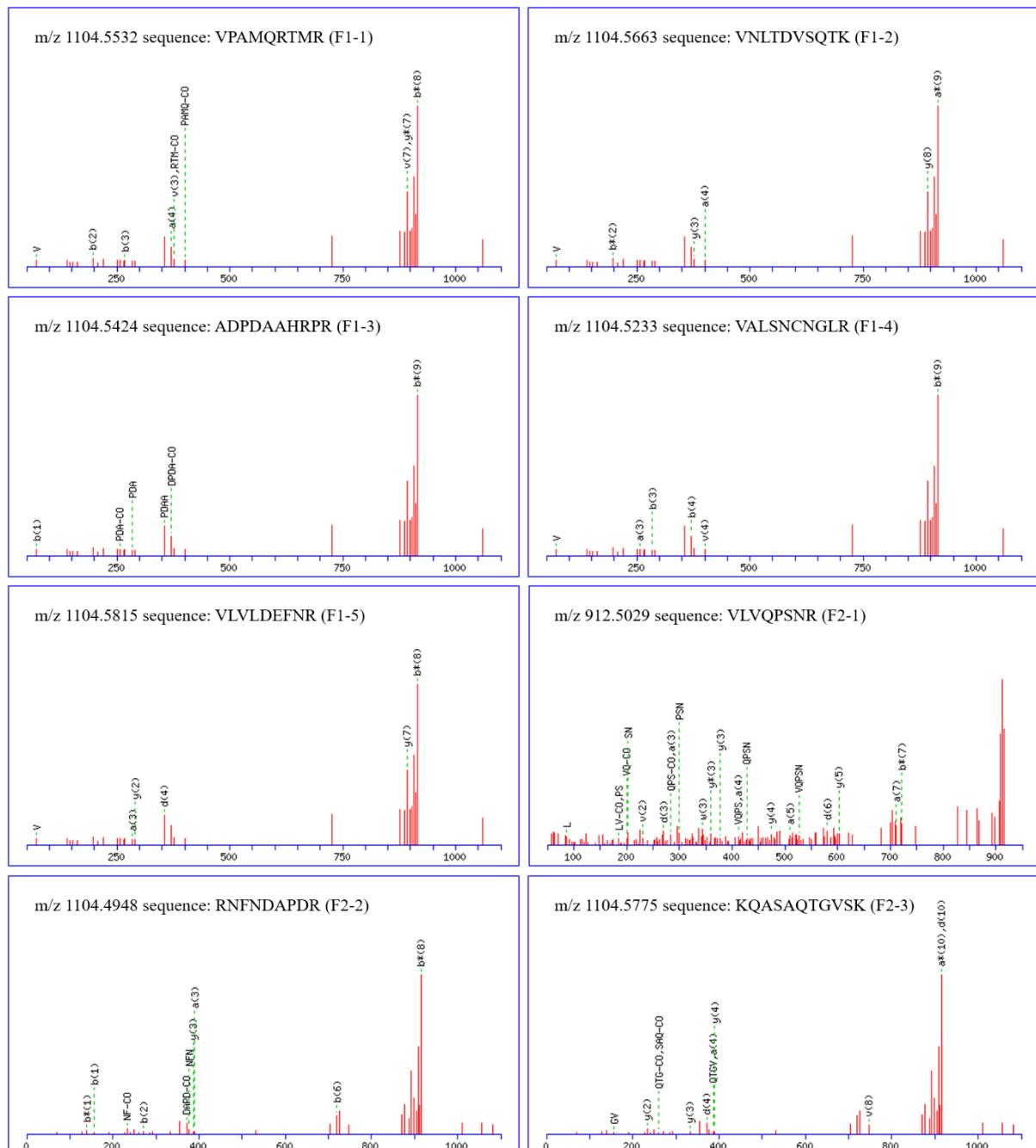
1 **Figure captions**

2 **Fig. S1** MS/MS spectra of identified peptides.

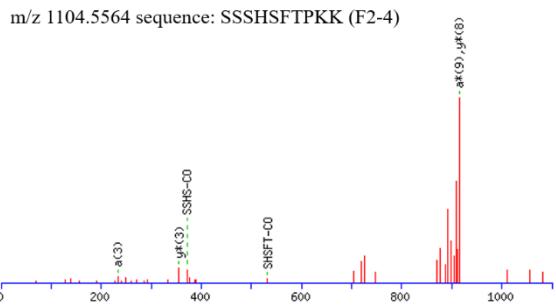
3 **Fig. S2** Molecular docking results and 2D graph of interactions between identified peptides and
4 the receptor MPO.

5 **Fig. S3** ROS flow cytograms of H₂O₂-induced oxidative damage in HEK-293 cell treated by
6 identified peptides.

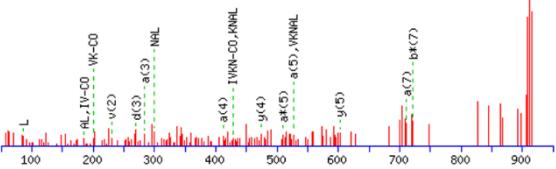
7 **Fig. S1**



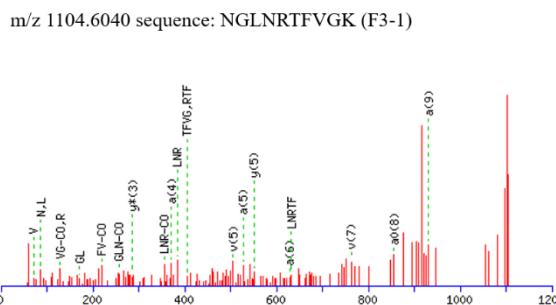
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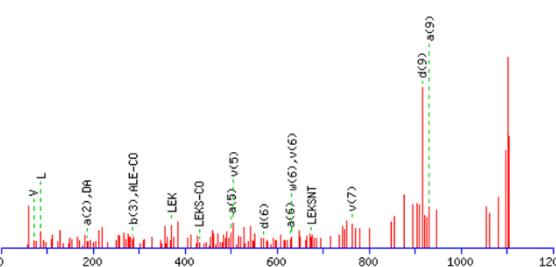
m/z 912.5756 sequence: VIVKNALR (F2-5)



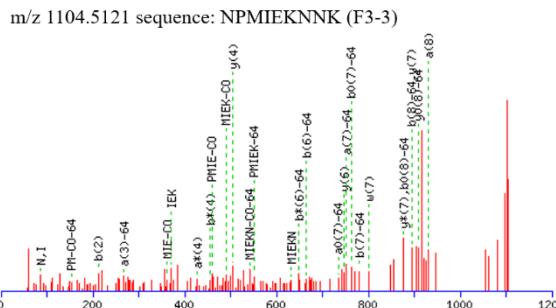
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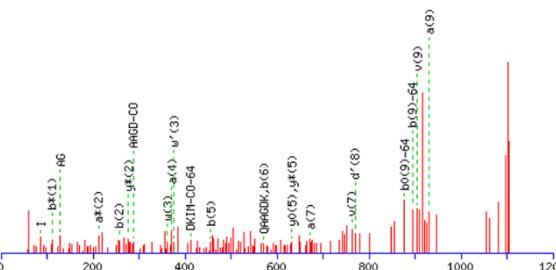
m/z 1104.5662 sequence: VDALEKSNTK (F3-2)



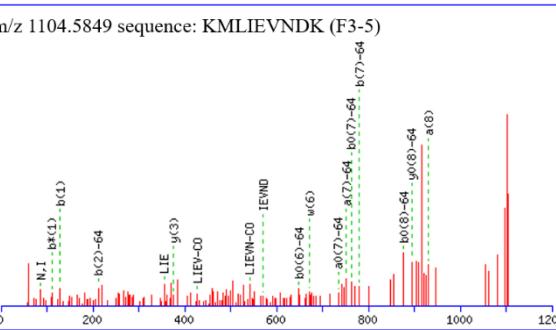
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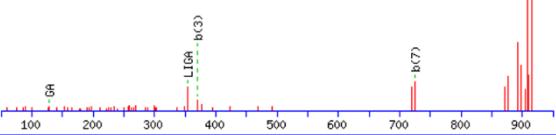
m/z 1104.5597 sequence: QQAAGDKIMK (F3-4)



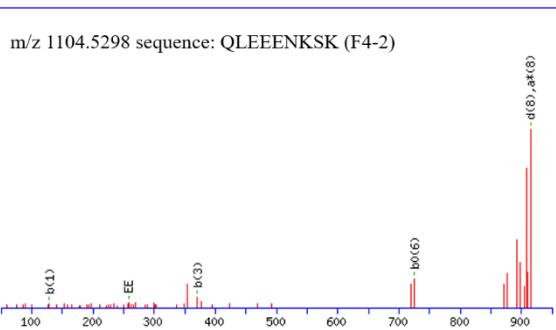
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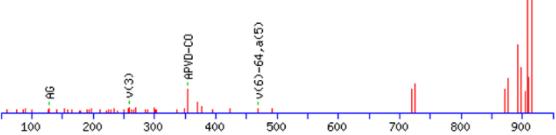
m/z 1104.6179 sequence: QQLLIGAYAK (F4-1)



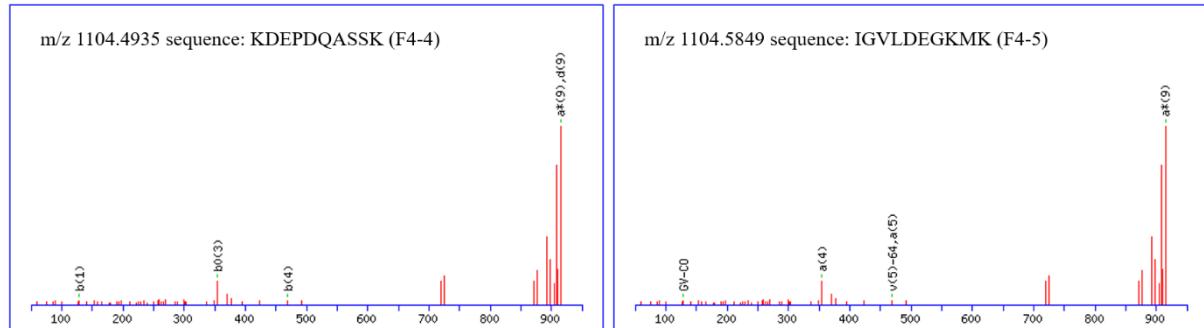
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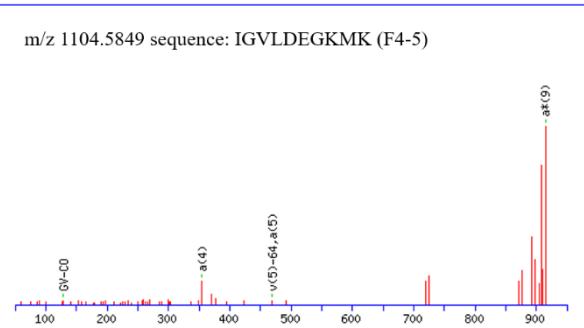
m/z 1104.4757 sequence: DAPVDQMGAGK (F4-3)



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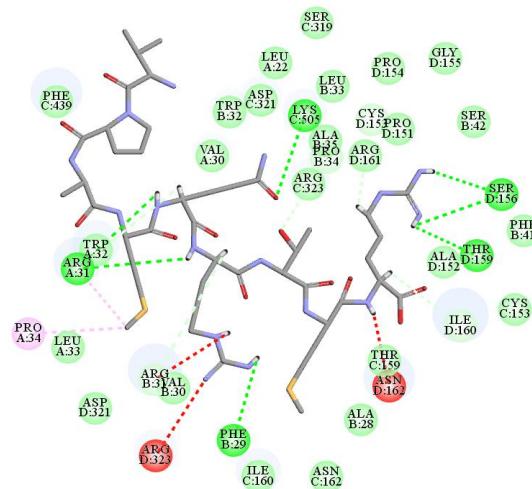
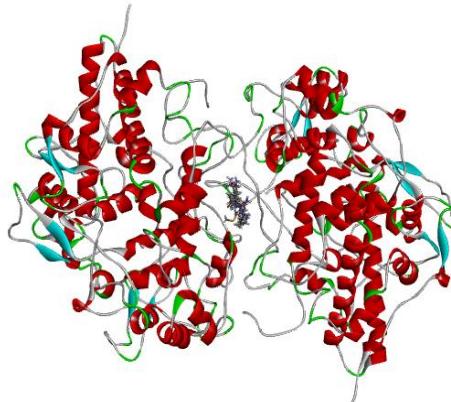


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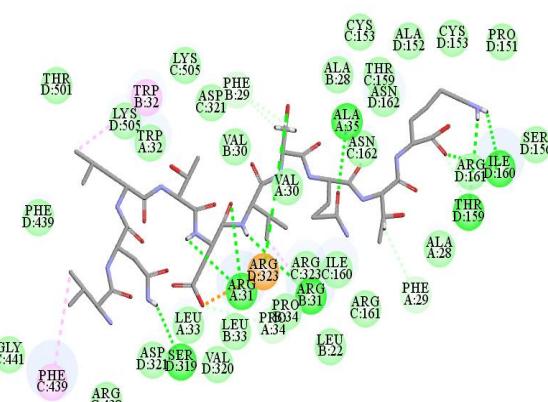
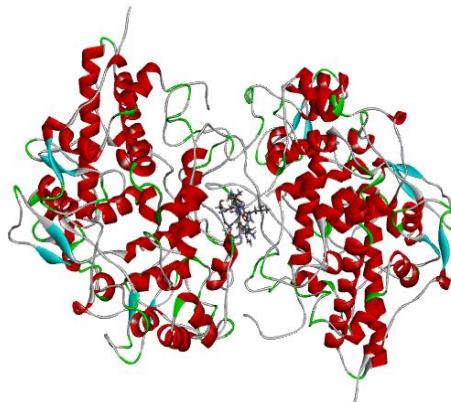
19 **Fig. S2**

20 **VPAMQRTMR**



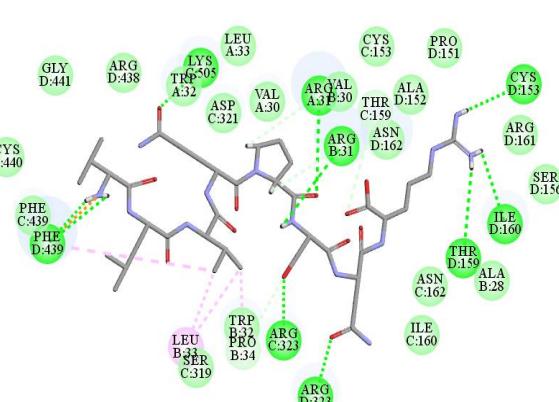
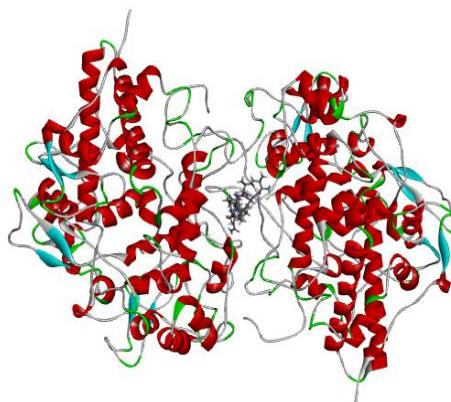
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22 **VNLTDVSQTK**



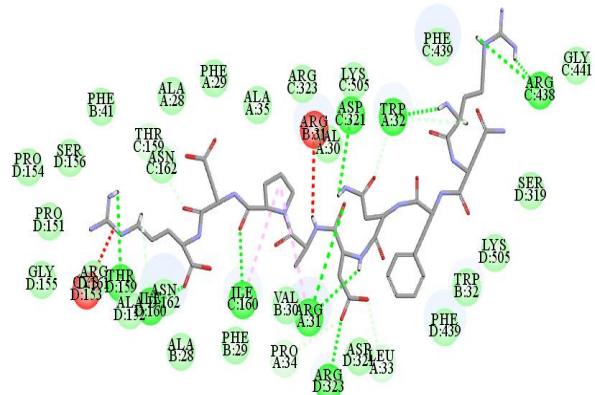
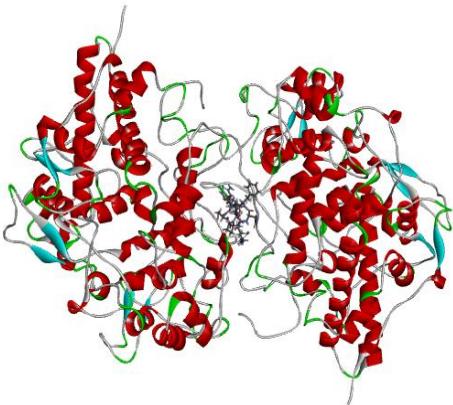
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24 **VLVQPSNR**



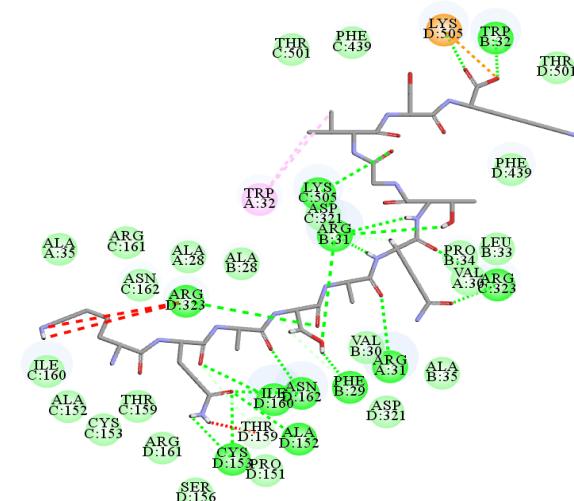
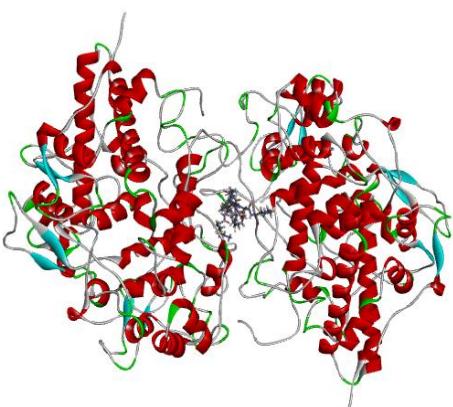
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26 RNFNDAPDR



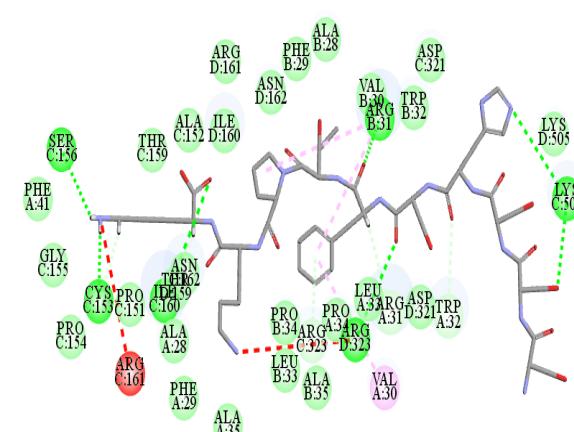
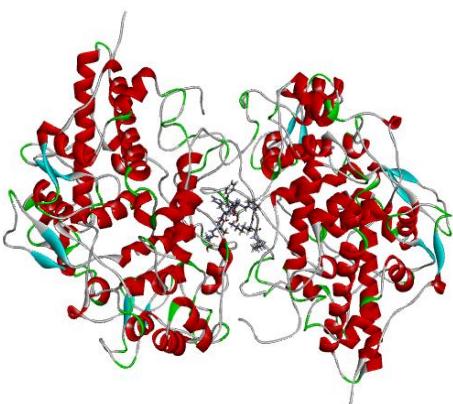
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28 KQASAQTGVSK



29

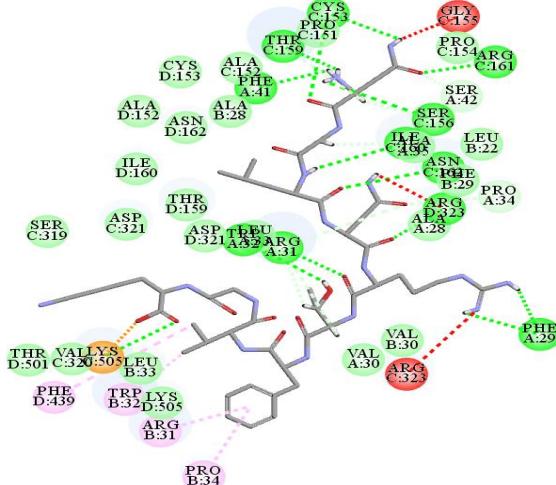
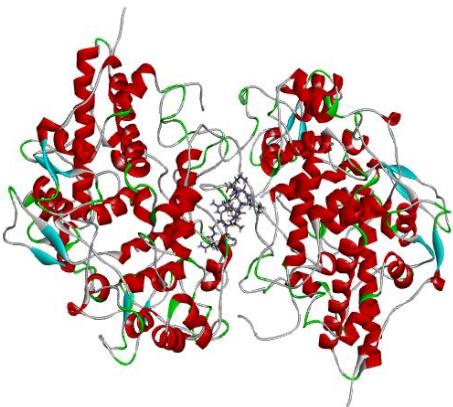
30 SSSHSFTPKK



31

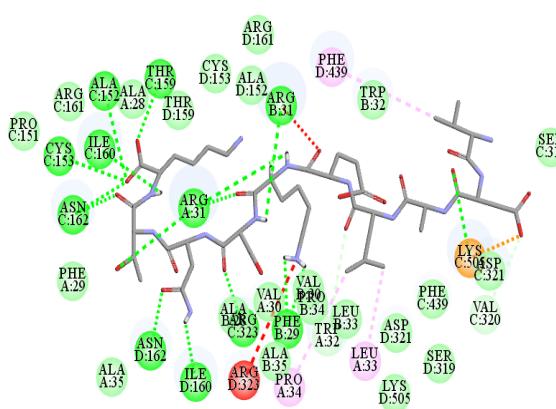
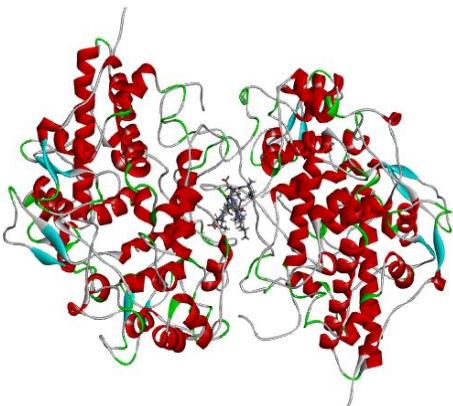
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33 NGLNRTFVGK



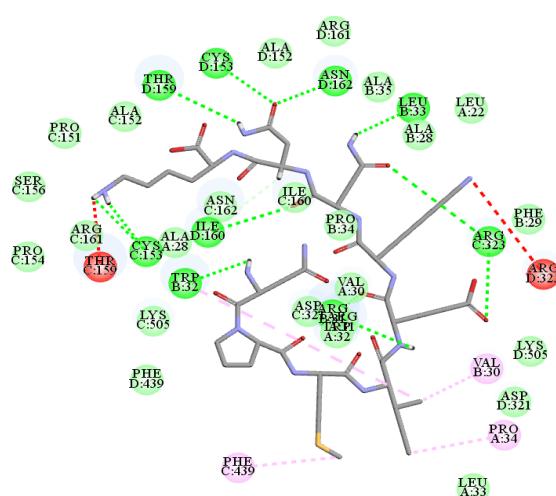
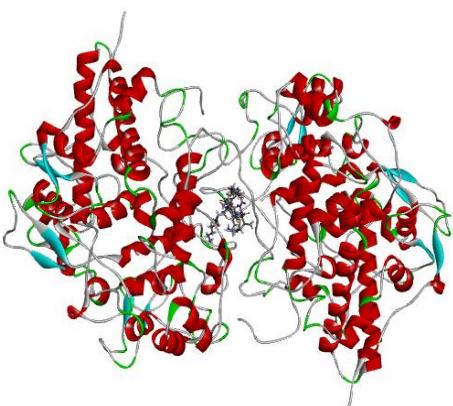
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35 VDALEKSNTK



36

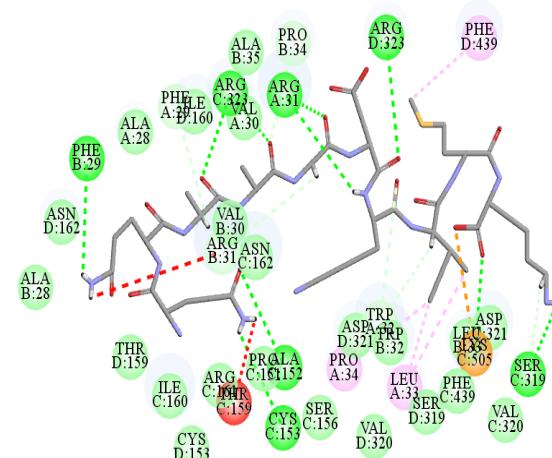
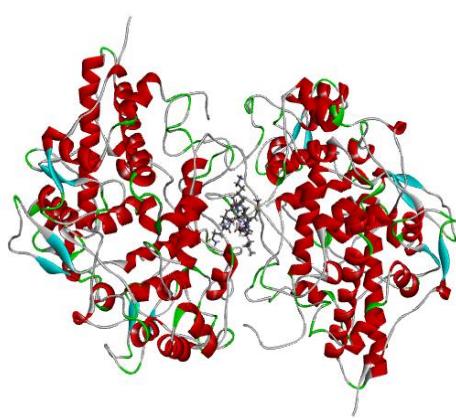
37 NPMIEKNNK



38

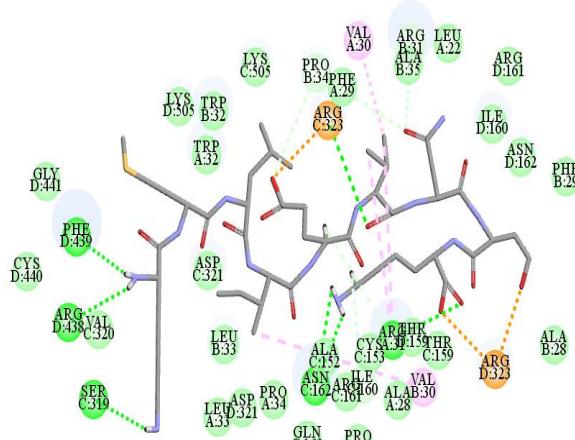
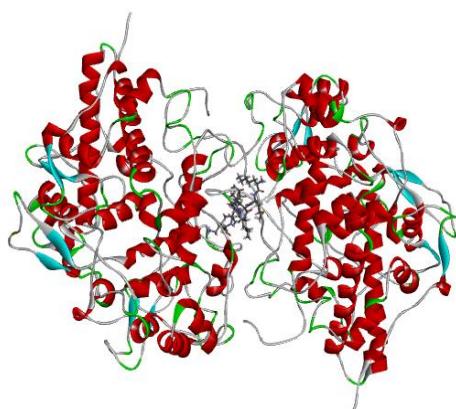
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40 **QQAAGDKIMK**



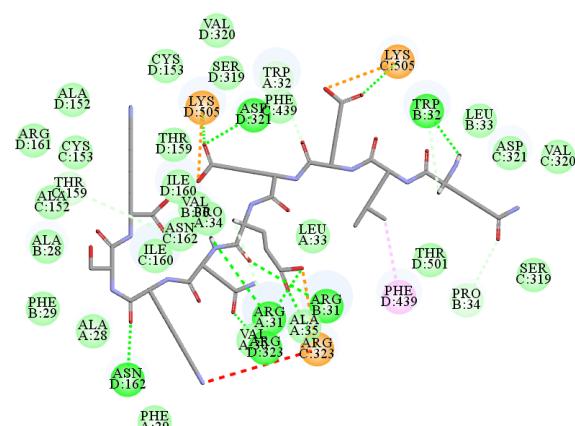
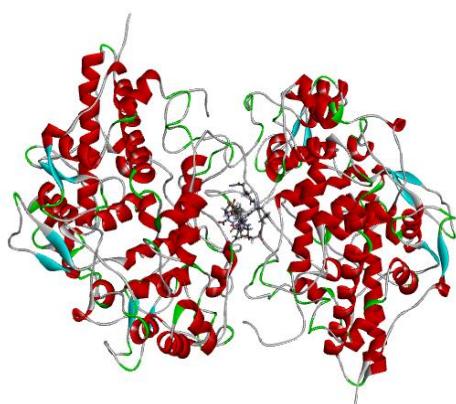
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42 **KMLIEVNDK**



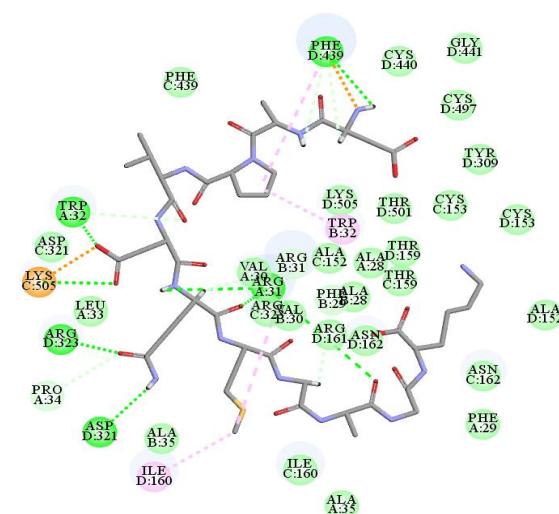
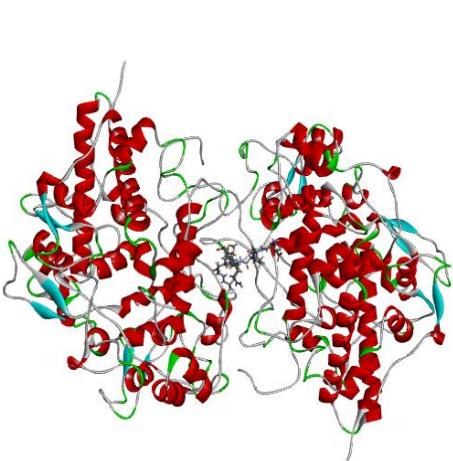
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44 **QLEEEENKS**



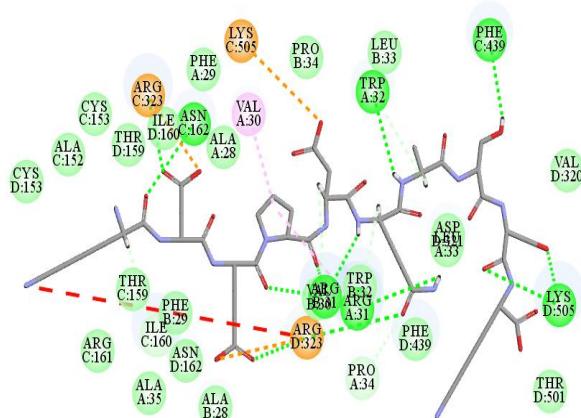
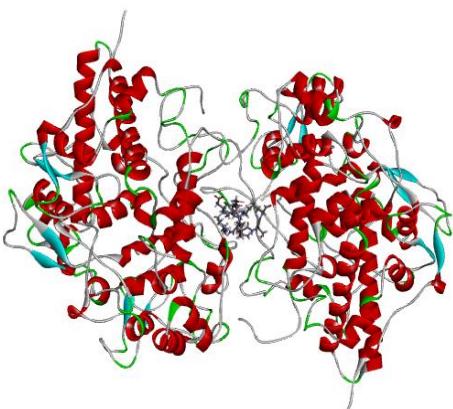
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46 DAPVDQMGAGK



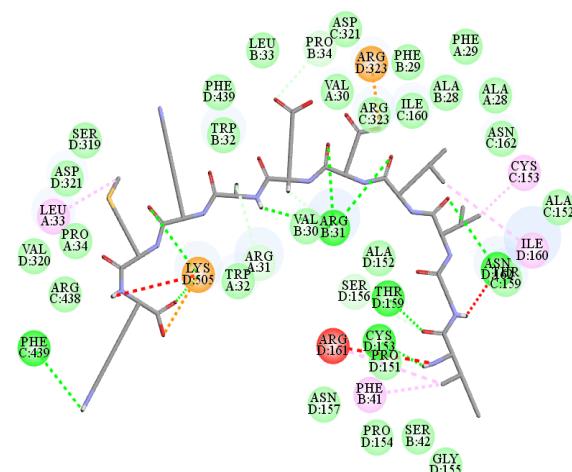
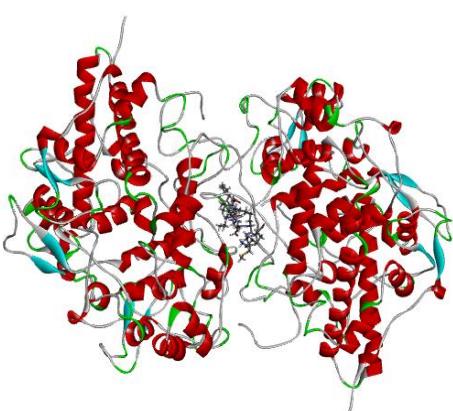
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48 KDEPDQASSK



49

50 IGVLDLEGKMK

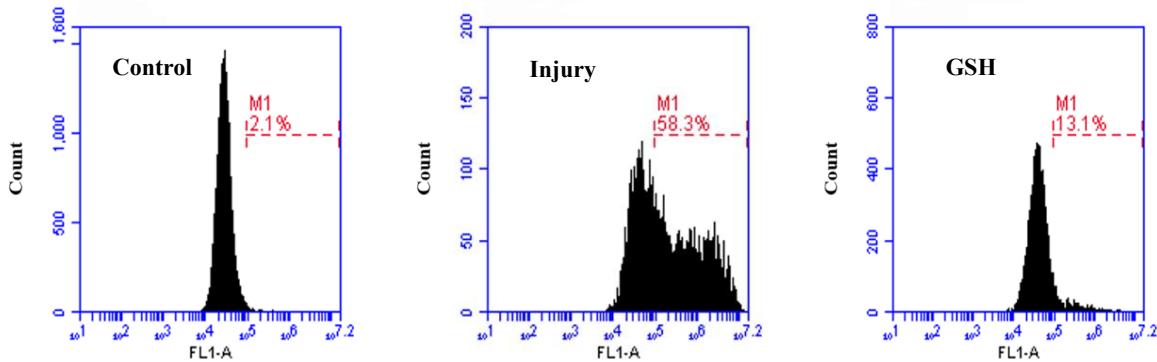


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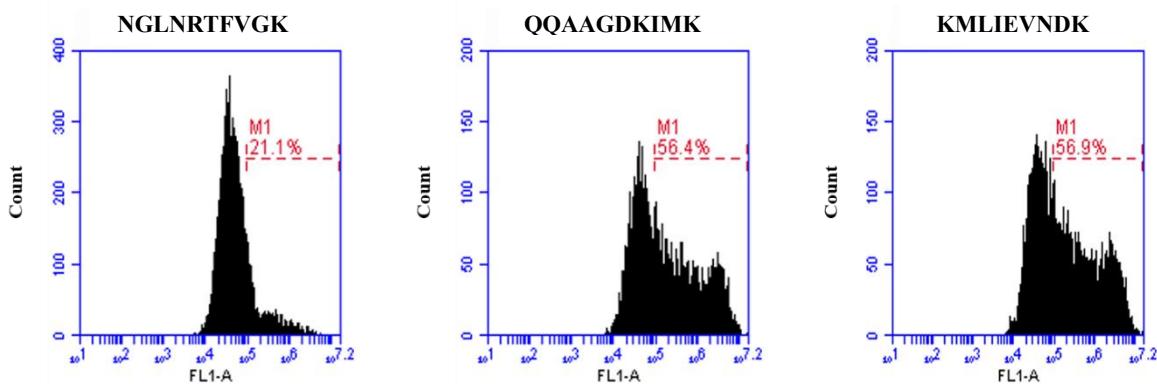
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53 **Fig. S3**

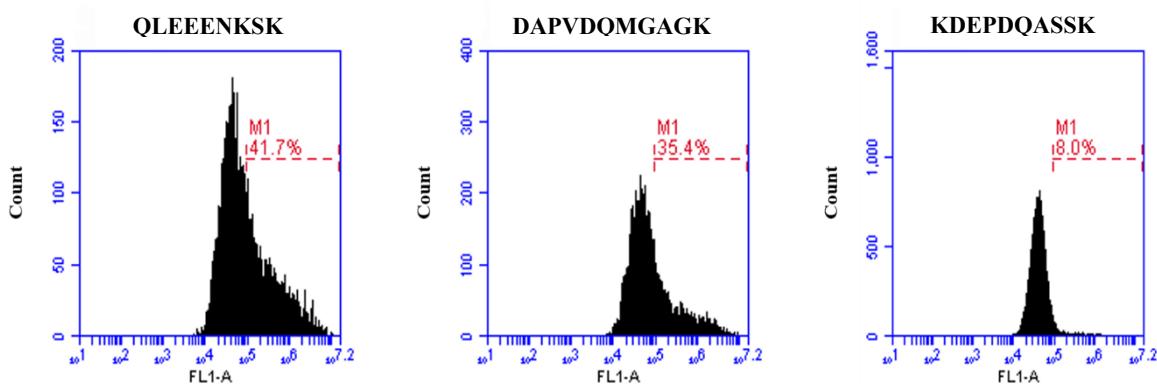
54 **300 µg/mL**



55



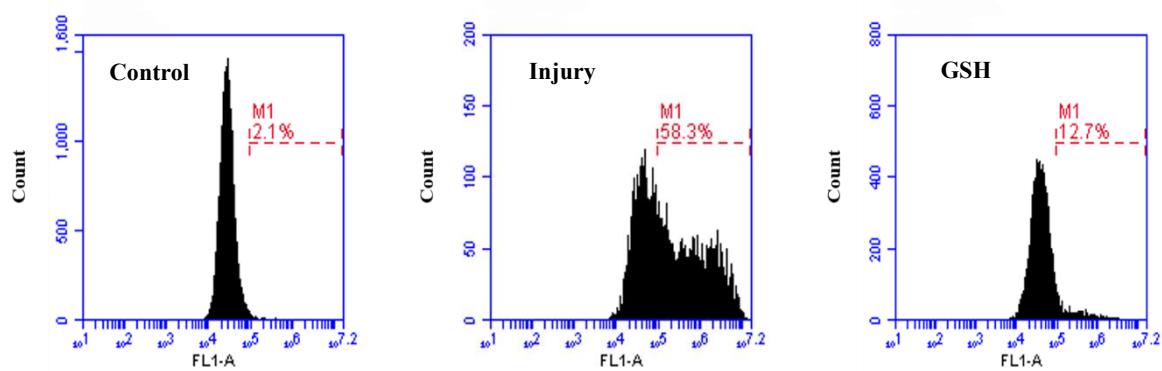
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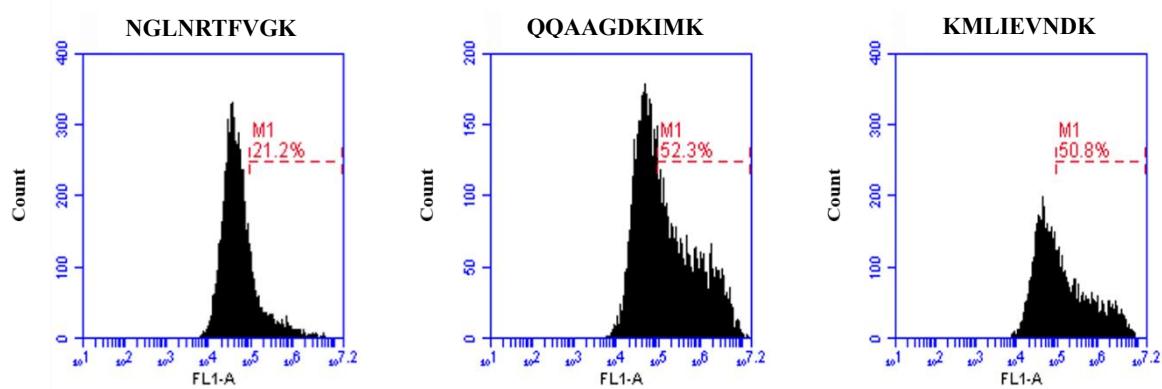
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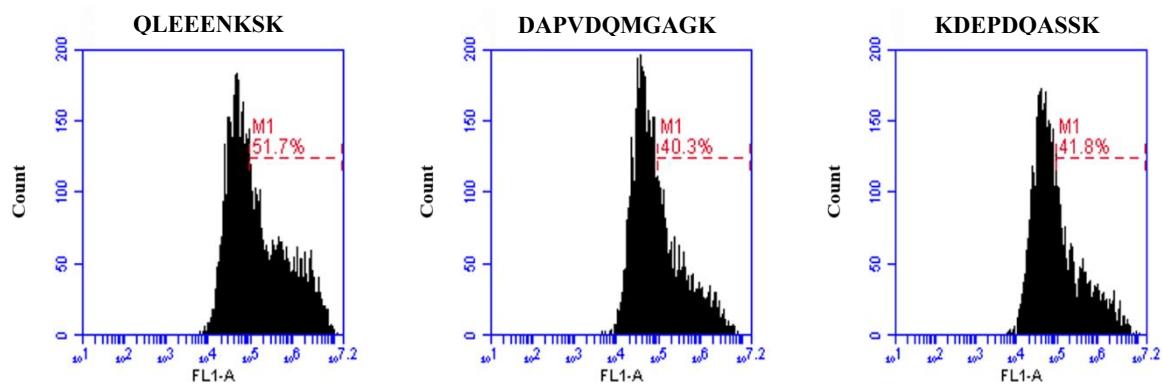
59 **600 µg/mL**



60



61



62