

Design, synthesis and biological evaluation of novel quinazoline derivatives with nitric oxide release moiety as preferential COX-II inhibitors

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Four novel series of 1substituted-3-(2-methyl-4-oxo-4H-quinazolin-3-yl) urea and/or thiourea, 4substituted-N-(2-methyl-4-oxo-4H-quinazolin-3-yl) benzene sulfonamide and their NO-hybrid molecules as nitrate esters have been synthesized and evaluated.

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cyclooxygena In-vitro assay In-vivo anti-inflammato **Evaluation of NO released** Assessment gas ulcerogenicity

Histopathological inve

	Molecular Mode
ase inhibition	
	3D Pharmacoph study
ory activity	
ase in serum	2D QSAR mode
	Equation 1 represents the b performing QSAR model
stric mucosal	-logIC ₅₀ =36.350 ALogP - 4 Molecular_FractionalPola ceArea - 1.232
	Docking Studi
estigation	



