Electronic Supplementary Material (ESI) for Analytical Methods.

Colorimetric protease activity assay method using engineered procaspase-3 enzymes

Dokyung Yang,[a] Hyeon Ji Park[a] and Tae Hyeon Yoo[a,b]

[a]Department of Molecular Science and Technology and [b]Department of Applied Chemistry and Biological Engineering, Ajou University, Suwon, Korea

Correspondence should be addressed to Tae Hyeon Yoo.

E-mail: taehyeonyoo@ajou.ac.kr

Tel: +82-31-219-3543

Fax: +82-311-219-1610

Table S1. Primers used in this study

Oligonucleotide	Sequence (5’ -> 3’)
Primer 1	AAGGTTCATATGTCTGGAATATCCCTGGACAACAG
Primer 2	GTGGTGCTCGAGGTGATAAAAATAGAG
Primer 3	GTGGCCCGCTGGGTGTGCGTGGTGTTGATGATGACATGGCGTGTC
Primer 4	CACCACGCACACCCAGCGGGCCACAGTCCAGTTCTGTACCAC
Primer 5	ACAGGCCCTCTGGGTGTGCGTAGTGGTGTTGATGATGACATGGCGTG
Primer 6	ACTACGCACACCCAGAGGGCCTGTCTCAATGCCACAGTCCAGTTC
Primer 7	ACAGGTAGCGGCCCTCTGGGTGTGCGTGGCAGTGGTGTTGATGATGAC
Primer 8	ACTGCCACGCACACCCAGAGGGCCGCTACCTGTCTCAATGCCACAGTC
Primer 9	ACAGGCGGTAGCGGCCCTCTGGGTGTGCGTGGCGGTAGTGGTGTTGATG
Primer 10	ACTACCGCCACGCACACCCAGAGGGCCGCTACCGCCTGTCTCAATGCCACAGTC
Primer 11	ACAGGTGGCGGTAGCGGCCCTCTGGGTGTGCGTGGTGGCGGTAGTGGTGTTGATG
Primer 12	ACTACCGCCACCACGCACACCCAGAGGGCCGCTACCGCCACCTGTCTCAATGCCACAGTC

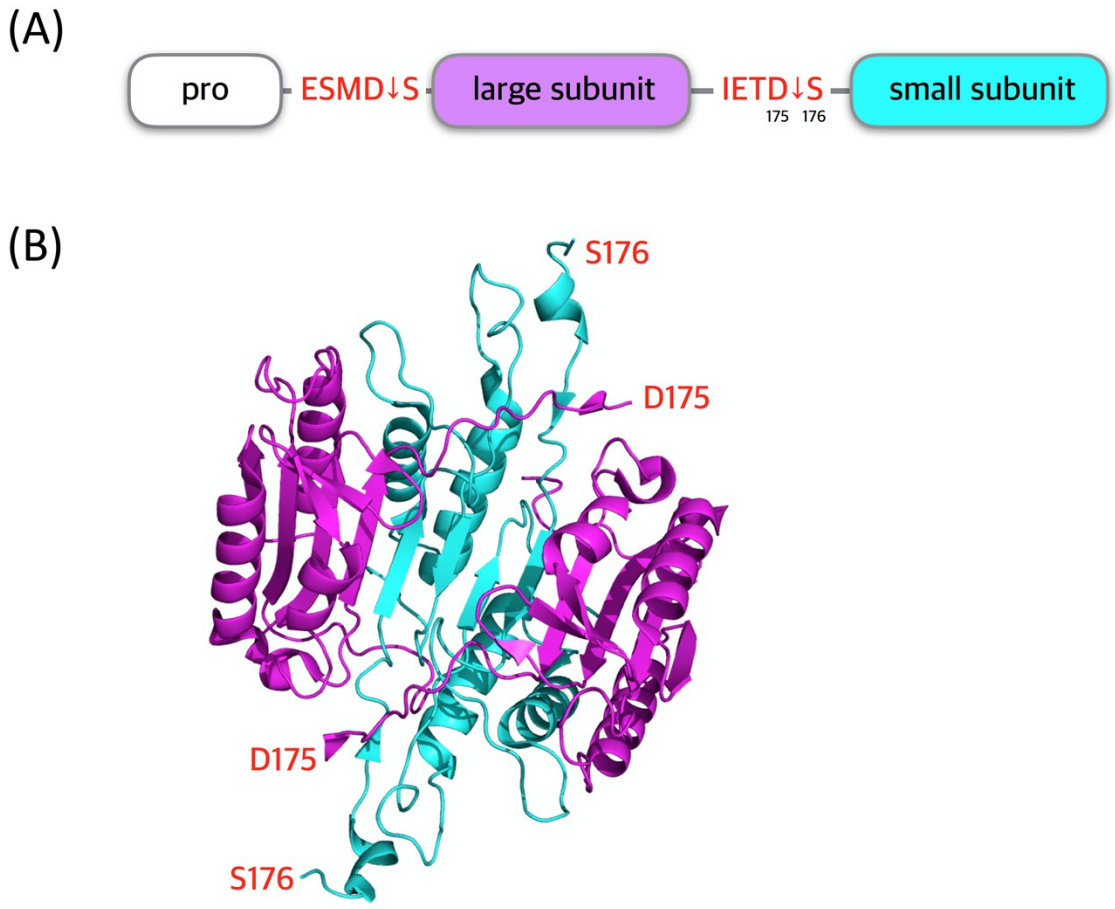

Fig. S1. (A) Structure of procaspase-3. The processing sequences in red (P4-P1' with a down arrow to denote the scissile bond) are shown in the context of caspase-3 domain structure. (B) Structure of dimeric caspase-3 (PDB: 1I3O). The processed site between the large and small subunits is shown in red (D175 and S176).