

Active Recombinant Human CASP3 Protein, His-tagged

Cat. No. CASP3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human caspase 3 (CASP3), also known as CPP32 and apopain, a.a. 1 – 277 (end) with C-terminal His-tag, expressed in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	1-277
Description	The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease.
Form	Aqueous buffer solution
Bio-activity	≥ 6,784 pmol/min/μg
Molecular Mass	17 kDa and 13 kDa
AA Sequence	MENTENSVDKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKST GMTSRSGTDVDAANLRETFRNLYEVRNKNDLTREEIVELMRDVSKEDHSKRSSFV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CVLLSHGEEGIIFGTNGPVDLKKITNFFRGDRCSLTGKPKLFIIQACRGTELDGCIET
 DSGVDDDMACHKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYADK
 LEFMHILTRVNRKVATEFESFSFDFATFHAKKQIPCIVSMLTKELYFYHHHHHHH

Purity > 99%

Applications Enzyme kinetics, screening inhibitors, and selectivity profiling

Stability > 6 months

Storage Store at -80 centigrade

Storage Buffer 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol and 3 mM DTT

GENE INFORMATION

Gene Name CASP3 caspase 3 [Homo sapiens (human)]

Official Symbol CASP3

Synonyms CASP3; caspase 3; CPP32; SCA-1; CPP32B; caspase-3; CASP-3; CPP-32; PARP cleavage protease; SREBP cleavage activity 1; apopain; caspase 3, apoptosis-related cysteine peptidase; caspase 3, apoptosis-related cysteine protease; cysteine protease CPP32; procaspase3; protein Yama

Gene ID 836

mRNA Refseq NM_004346

Protein Refseq NP_004337

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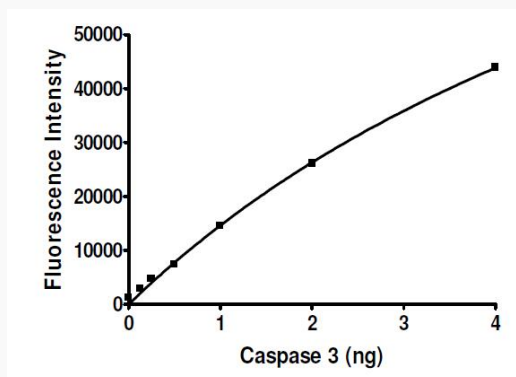
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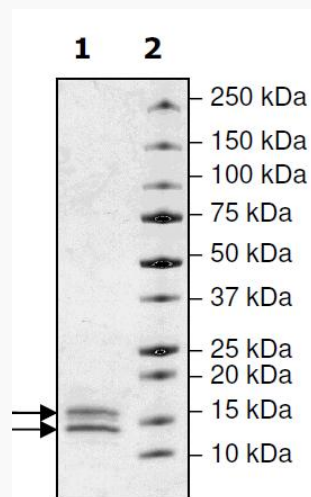
MIM 600636

UniProt ID P42574

Caspase 3 activity



SDS-PAGE of CASP3



Lane 1: 2 µg Caspase 3; Lane 2: Protein Markers

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