Recombinant Human CASP3 Protein, His-tagged

Cat. No. CASP3-624H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP3 Protein (Ser29-His277) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser29-His277
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.2 kDa; Accurate Molecular Mass: 14/18/20 kDa
Purity	> 90%
Applications	Cell culture; Activity Assays.

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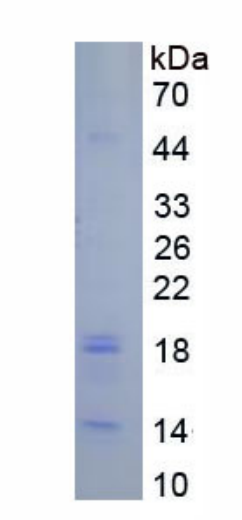
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CASP3 caspase 3 [Homo sapiens (human)]
Official Symbol	CASP3
Synonyms	CASP3; caspase 3, apoptosis-related cysteine peptidase; caspase 3, apoptosis related cysteine protease; caspase-3; apopain; CPP32; CPP32B; Yama; CASP-3; CPP-32; procaspase3; protein Yama; PARP cleavage protease; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis-related cysteine protease; SCA-1;
Gene ID	836
mRNA Refseq	NM_004346
Protein Refseq	NP_004337

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MIM	600636
UniProt ID	P42574



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