

# Product information



## CASP3, 176-277aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP2651

**Full name:** Caspase 3

**NCBI Accession No.:** NP\_116786

**Synonym:** CPP32, CPP32B, SCA-1

**Description:** CASP3 is a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the 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. Recombinant human CASP3 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol</p> <p><b>Molecular Weight:</b> 12 kDa (103aa)</p> <p><b>Purity:</b> &gt; 80% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MSGVDDMAC HKIPVEADFL YAYSTAPGY SWRNSKDGSW FIQSLCAMLK QYADKLEFMH ILTRVNRKVA TEFESFSFDA TFHAKKQIPC IVSMLTKELY FYH</p>	

### General references:

Harrington HA, Ho KL, *et al.* (2008). *Theor Biol Med Model.* 10;5:26.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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