

Recombinant human Caspase-8

Catalog No: #AP72375



Package Size: #AP72375-1 10ug #AP72375-2 200ug

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Description

Product Name	Recombinant human Caspase-8
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:217C374aaSequence Info:Partial
Other Names	<p>Apoptotic cysteine protease</p> <p>Apoptotic protease Mch-5</p> <p>CAP4</p> <p>FADD-homologous ICE,ced-3-like protease</p> <p>FADD-like ICE</p> <p>Short name:</p> <p>FLICE</p> <p>ICE-like apoptotic protease 5</p> <p>MORT1-associated ced-3 homolog</p> <p>Short name:</p> <p>MACH</p> <p>Cleaved into the following 2 chains:</p> <p>Caspase-8 subunit p18</p> <p>Caspase-8 subunit p10</p>
Accession No.	Q14790
Uniprot	Q14790
GeneID	841;
Calculated MW	21.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	<p>SESQTLDKVYQMKSKPRGYCLINNNHFAKAREKVPKLHSIRDRNGTHLDAGALTTTFEELHFEIKPHDDCTVE</p> <p>QIYEILKIYQLMDHSNMDCFICCILSHGDKGIYGTGQEAPIYELTSQFTGLKCPSLAGKPKVFFIQACQGDNYQ</p> <p>KGIPVETD</p>
Formulation	Tris-based buffer50% glycerol
Storage	<p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.</p>

Background

Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6,FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs

CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.

References

"Characterization of caspase-8L: a novel isoform of caspase-8 that behaves as an inhibitor of the caspase cascade." Himeji D., Horiuchi T., Tsukamoto H., Hayashi K., Watanabe T., Harada M. Blood 99:4070-4078(2002) Research Topic: Apoptosis

Note: This product is for in vitro research use only