

Product datasheet

Recombinant human Caspase-10 / CASP-10 protein ab52080

製品の概要

製品名	Recombinant human Caspase-10 / CASP-10 protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
アクセッション番号	Q92851
生物種	Human

特性

Our [Abpromise guarantee](#) covers the use of **ab52080** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生理活性	SPECIFIC ACTIVITY: 8000 units/mg One unit of the recombinant caspase-10/a (CASP-10) is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroaniline) per hour at 37°C.
アプリケーション	SDS-PAGE Functional Studies
精製度	> 90 % SDS-PAGE.
製品の状態	Lyophilised
備考	The lyophilized caspase-10 is stable for 1 year at -70°C. Previously labelled as Caspase-10.

前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Constituents: PBS, 15% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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再構成 Reconstitute to 1 unit per μ l in PBS containing 15% glycerol. Following reconstitution in PBS and 15% glycerol, the enzyme should be aliquoted and immediately stored at -70°C . Avoid multiple freeze/thaw cycles as activity might decrease.

関連情報

機能 Involved in the activation cascade of caspases responsible for apoptosis execution. Recruited to both Fas- and TNFR-1 receptors in a FADD dependent manner. May participate in the granzyme B apoptotic pathways. Cleaves and activates caspase-3, -4, -6, -7, -8, and -9. Hydrolyzes the small- molecule substrates, Tyr-Val-Ala-Asp-AMC and Asp-Glu-Val-Asp-AMC.
Isoform C is proteolytically inactive.

組織特異性 Detectable in most tissues. Lowest expression is seen in brain, kidney, prostate, testis and colon.

関連疾患 Defects in CASP10 are the cause of autoimmune lymphoproliferative syndrome type 2A (ALPS2A) [MIM:603909]. ALPS2 is characterized by abnormal lymphocyte and dendritic cell homeostasis and immune regulatory defects.
Defects in CASP10 are a cause of familial non-Hodgkin lymphoma (NHL) [MIM:605027]. NHL is a cancer that starts in cells of the lymph system, which is part of the body's immune system. NHLs can occur at any age and are often marked by enlarged lymph nodes, fever and weight loss.
Defects in CASP10 are a cause of gastric cancer (GASC) [MIM:613659]. A malignant disease which starts in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. The term gastric cancer or gastric carcinoma refers to adenocarcinoma of the stomach that accounts for most of all gastric malignant tumors. Two main histologic types are recognized, diffuse type and intestinal type carcinomas. Diffuse tumors are poorly differentiated infiltrating lesions resulting in thickening of the stomach. In contrast, intestinal tumors are usually exophytic, often ulcerating, and associated with intestinal metaplasia of the stomach, most often observed in sporadic disease.

配列類似性 Belongs to the peptidase C14A family.

Contains 2 DED (death effector) domains.

翻訳後修飾 Cleavage by granzyme B and autocatalytic activity generate the two active subunits.
Phosphorylated upon DNA damage, probably by ATM or ATR.

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