

Product datasheet

Recombinant Human BACE1 protein (Fc Chimera)  
 ab168902

1 Image

Description

<b>Product name</b>	Recombinant Human BACE1 protein (Fc Chimera)	
<b>Purity</b>	> 90 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/μg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P56817</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	<p>TQHGIRLPLRSGLGGAPLGLRLPRETDEEPEEPGRRGSFV          EMVDNLRGKS          GGGYVEMTVGSPQTLNILVDTGSSNFAVGAAPHPFLHR          YYQRQLSSTY          RDLRKGVYVPYTQGKWEDELGTDLVSIHPGNVTVRANIA          AITESDKFFI          NGSNWEGLGLAYAEIARPDDSLEPFFDSLVKQTHVPNLF          SLQLCGAGFP          LNQSEVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWYEVII          VRVEING          QDLKMDCKEYNYDKSIVDSGTTNLRPLPKKVFEAAVKSIIA          ASSTEKFPDG          FWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITL          PQQYLRPVE          DVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARK          RIGFAVSACH          VHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMT</p>	
<b>Predicted molecular weight</b>	75 kDa including tags	
<b>Amino acids</b>	22 to 457	
<b>Tags</b>	Fc tag N-Terminus	
<b>Additional sequence information</b>	The Human BACE-1 will be further processed into mature form (Glu 46-Thr 457). The protein has	

a calculated MW of 75.2 kDa (pro-form) and 72.6 kDa (mature-form).

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab168902** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section.  pH: 7.4 Constituents: 5% Trehalose, 0.75% Glycine, 0.61% Tris
<b>Reconstitution</b>	Reconstitute with sterile deionized water to a concentration of 1 mg/ml.

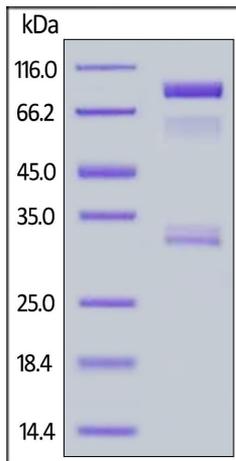
## General Info

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<b>Function</b>	Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase.
<b>Tissue specificity</b>	Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coeruleus and medulla oblongata.
<b>Sequence similarities</b>	Belongs to the peptidase A1 family.
<b>Domain</b>	The transmembrane domain is necessary for its activity. It determines its late Golgi localization and access to its substrate, APP.
<b>Post-translational modifications</b>	Glycosylated.
<b>Cellular localization</b>	Membrane. Golgi apparatus > trans-Golgi network. Endoplasmic reticulum. Endosome. Cell surface. Predominantly localized to the later Golgi/trans-Golgi network (TGN) and minimally detectable in the early Golgi compartments. A small portion is also found in the endoplasmic reticulum, endosomes and on the cell surface.

## Images

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SDS-PAGE analysis of reduced ab168902 stained overnight with Coomassie Blue. The protein ab168902 migrates as 80-96 kDa due to glycosylation. The purity of the protein is greater than 90%.

SDS-PAGE - Recombinant Human BACE1 protein  
(Fc Chimera) (ab168902)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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