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## Datasheet for ABIN7519704 **BACE1 Protein (His tag)**

### Overview

Quantity:	10 µg
Target:	BACE1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BACE1 protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human BACE-1/ASP2 Protein
Sequence:	TQHGI RLPLR SGLGGAPLGL RLPRETDEEP EEPGRRGSFV EMVDNLRGKS GQGYVEMTV GSPPQTLNIL VDTGSSNFAV GAAPHPFLHR YYQRQLSSTY RDLRKG VYVP YTQGWEGEL GTDLV SIPHG PNVTVRANIA AITESDKFFI NGSNWEGILG LAYAEIARPD DSLEPFFDSL VKQTHVPNLF SLQLCGAGFP LNQSEVLASV GGSMIIGGID HSLYTGSLWY TPIRREWYVE VIIVRVEING QDLKMDCKEY NYDKSIVDSG TTNLR LPKKV FEA AVKSIKA ASSTEKFPDG FWLGEQLVCW QAGTTPWNIF PVISLYLMGE VTNQSFRTI LPQQYLRPVE DVATSQDDCY KFAISQSSTG TVMGAVIMEG FYVVFDRARK RIGFAVSACH VHDEFRTAAV EGPFVTL DME DCGYNIPQTD ESTLMTIAY
Specificity:	Thr22-Tyr460
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

## Product Details

Endotoxin Level:	< 0.1 EU/μg of the protein by LAL method.
Biological Activity Comment:	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH <sub>2</sub> . The specific activity is >5.5 pmol/min/μg.

## Target Details

Target:	BACE1
Alternative Name:	BACE-1 ( <a href="#">BACE1 Products</a> )
Background:	<p>Description: Beta-site APP-cleaving enzyme 1 (BACE1) is an aspartic-acid protease important in the formation of myelin sheaths in peripheral nerve cells. BACE-1 is the peptidase predominantly responsible for cleavage of the amyloid precursor protein beta site in the brain to generate the amyloid beta peptide. Because the amyloid beta peptide is a major component of amyloid plaques, BACE-1 has been implicated in the onset and/or progression of Alzheimer's disease. BACE-1 is expressed in a variety of human tissues, such as brain, pancreatic tissue.</p> <p>Name: ASP2, BACE, HSPC104, BACE1, BACE, HSPC104</p>
Gene ID:	23621
UniProt:	<a href="#">P56817</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>