

Datasheet for ABIN7318055

BACE1 Protein (Fc Tag)



Overview

Quantity:	100 μg
Target:	BACE1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BACE1 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human BACE1/ASP2 Protein (Fc Tag)(Active)
Sequence:	Met 1-Thr 457
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Thr 457) of human BACE1 (NP_036236.1) was expressed as a secreted chimeric protein with the C-terminal fused Fc region of human IgG1.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2, (R&D Systems, Catalog # ES004). The specific activity is >0.5 pmoles/min/µg.

Target Details

Target:	BACE1			
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Target Details

Alternative Name:	BACE1 (BACE1 Products)	
Background:	Background: Beta-site APP-cleaving enzyme 1 (BACE1) is an aspartic-acid protease important	
	in the formation of myelin sheaths in peripheral nerve cells. In the brain, This protein is	
	expressed highly in the substantia nigra, locus coruleus and medulla oblongata. Strong BACE1	
	expression has also been described in pancreatic tissue. BACE1 has a pivotal role in the	
	pathogenesis of Alzheimer's disease. In Alzheimer's disease patients, BACE1 levels were	
	elevated although mRNA levels were not changed. It has been found that BACE1 gene	
	expression is controlled by a TATA-less promoter. The translational repression as a new	
	mechanism controlling its expression. And the low concentrations of Ca(2+) (microM range)	
	significantly increased the proteolytic activity of BACE1. Furthermore, BACE1 protein is	
	ubiquitinated, and the degradation of BACE1 proteins and amyloid precursor protein processing	
	are regulated by the ubiquitin-proteasome pathway. It has also been identified as the rate	
	limiting enzyme for amyloid-beta-peptide (Abeta) production.	
	Synonym: ASP2,BACE,HSPC104	
Molecular Weight:	75 kDa	
NCBI Accession:	NP_036236	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	
	samples are stable at < -20°C for 3 months.	