

Datasheet for ABIN7318054 **BACE1 Protein (His 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 His tag.

Product Details

Purpose:	Recombinant Human BACE1/ASP2 Protein (His Tag)(Active)
Sequence:	Met 1-Thr 457
Characteristics:	A DNA sequence encoding the extracellular domain (amino acid residue Met 1-Thr 457) of human BACE1 (NP_036236.1) precursor was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g 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 >1.5 pmoles/min/µg.

Target Details

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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:	49.9 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.

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