

For Research Use Only

Recombinant Human BACE1 protein (rFc Tag)



Catalog Number: Eg4497

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human BACE1 protein Thr22-Thr457 (Accession# P56817-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

23621

Accession:

P56817-1

Predicted Molecular Mass:

74.7 kDa

SDS-PAGE:

85-95 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

BACE1 is a gene that encodes for an enzyme, also known as Beta-secretase 1. It belongs to the protein class of enzymes and transporters and is predicted to be located in the membrane and intracellular regions. It has several splice variants with different lengths and masses, ranging from 267 to 501 amino acids in length. BACE1 is responsible for the proteolytic processing of the amyloid precursor protein (APP). It cleaves at the N-terminus of the A-beta peptide sequence, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment. This process is a key step in the formation of amyloid beta peptide from amyloid precursor protein, which is central to the development of Alzheimer's disease.

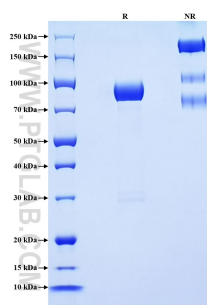
References

- 1.Araki W. (2016) Brain Res Bull. 126(Pt 2):170-177.
- 2.Motoki K. et al. (2012) Brain Behav. 2(3):270-82.
- 3.Griffiths HH. et al. (2011) J Biol Chem. 286(38):33489-500.

Synonyms

ASP2, ASP21, Aspartyl protease 2, Beta secretase 1, Beta-secretase 1

Selected Validation Data



Purity of Recombinant Human BACE1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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