Mouse BACE-1 Protein

Cat. No. BAE-MM101

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Description	
Source	Recombinant Mouse BACE-1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Thr22-Thr457.
Accession	P56818
Molecular Weight	The protein has a predicted MW of 49.49 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	The beta-site amyloid precursor protein cleaving enzyme-1 (BACE-1) initiates the generation of amyloid- β (A β), and the amyloid cascade leading to amyloid plaque deposition, neurodegeneration, and dementia in Alzheimer's disease (AD). Clinical failures of anti-A β therapies in dementia stages suggest that treatment has to start in the early, asymptomatic disease states.

Assay Data

Tris-Bis PAGE



SEC-HPLC



Mouse BACE-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

The purity of Mouse BACE-1 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2. The specific activity is > 3 pmol/min/µg.

