

Recombinant Human Beta-amyloid 40/Beta-APP40 Protein (His&GST Tag)



Catalog Number:PKSH031466

Note: Centrifuge before opening to ensure complete recovery of vial contents.

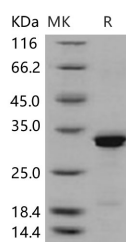
Description

Synonyms	AAA;ABETA;ABPP;AD1;APPI;CTFgamma;CVAP;PN-II;PN2
Species	Human
Expression Host	E.coli
Sequence	Asp 672-Val 711
Accession	P05067-1
Calculated Molecular Weight	31.8 kDa
Observed molecular weight	33 kDa
Tag	N-His-GST
Bioactivity	Measured by its ability to bind biotinylated recombinant human AGER in a functional ELISA.

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 500mM NaCl, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

Amyloid precursor protein (APP) is a type I transmembrane protein expressed in many tissues and concentrated in the synapses of neurons, and is suggested as a regulator of synapse formation and neural plasticity. APP can be processed by two different proteolytic pathways. In one pathway, APP is cleaved by β - and γ -secretase to produce the amyloid- β -protein ($A\beta$, Abeta, beta-amyloid) which is the principal component of the amyloid plaques, the major pathological hallmark of Alzheimer's disease (AD), while in the other pathway, α -secretase is involved in the cleavage of APP whose product exerts anti-amyloidogenic effect and prevention of the $A\beta$ peptide formation. The aberrant accumulation of

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aggregated beta-amyloid peptides (A β) as plaques is a hallmark of AD neuropathology and reduction of A β has become a leading direction of emerging experimental therapies for the disease. A β may be part of a mechanism controlling synaptic activity, acting as a positive regulator presynaptically and a negative regulator postsynaptically. The pathological accumulation of oligomeric A β assemblies depresses excitatory transmission at the synaptic level, but also triggers aberrant patterns of neuronal circuit activity and epileptiform discharges at the network level. There is evidence that beta-amyloid can impair blood vessel function. Vascular beta-amyloid deposition, also known as cerebral amyloid angiopathy, is associated with vascular dysfunction in animal and human studies.

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