Recombinant Human/Mouse/Rat BDNF Protein

Catalog No. PKSH033808

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

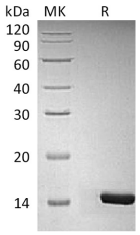
Description

Synonyms	Brain-Derived Neurotrophic Factor;BDNF;Abrineurin
Species	Human/Mouse/Rat
Expression Host	E.coli
Sequence	His129-Arg247
Accession	P23560
Calculated Molecular Weight	14.5 kDa
Observed molecular weight	14 kDa
Tag	C-His
Bioactivity	Measure by its ability to induce proliferation in BaF3 cells transfected with TrkB. The ED_{50} for this effect is < 2 ng/mL.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. 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



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Background

Brain-Derived Neurotrophic Factor (BDNF) is a member of the neurotrophin family. Along with other structurally related

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neurotrophic factors NGF; NT-3 and NT-4; BDNF binds with high affinity to the TrkB kinase receptor. It also binds with the LNGFR (for low-affinity nerve growth factor receptor; also known as p75). BDNF promotes the survival; growth and differentiation of neurons. It serves as a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. BDNF expression is altered in neurodegenerative disorders such as Parkinson's and Alzheimer's disease.

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