Recombinant Human β-NGF/NGFB Protein (with pro peptide)

Catalog No. PKSH033552

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

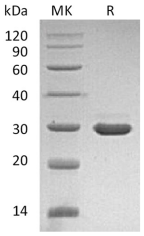
Description

Synonyms	Beta-Nerve Growth Factor;Beta-NGF;NGF;NGFB
Species	Human
Expression Host	E.coli
Sequence	Glu19-Ala241
Accession	P01138
Calculated Molecular Weight	25 kDa
Observed molecular weight	30 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 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 a 0.2 μm filtered solution of 20mM Tris-HCl,500mM NaCl,5%Trehalose,5%Mannitol,0.01%Tween 80,1mM EDTA,pH8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



> 95 % as determined by reducing SDS-PAGE.

Background

The precursor form of the nerve growth factor (proNGF) like its mature form is characterized by the cystin knot motif

consisting of three cystine bridges; whereas proneurotrophins and mature neurotrophins elicit opposite biological effects. ProNGF functions preferentially via the complex of pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin inducing neuronal apoptosis and contributing to age- and disease-related neurodegeneration.

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