Recombinant Human Neurotrophin-3/NTF3 Protein

Catalog Number: PKSH032803

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

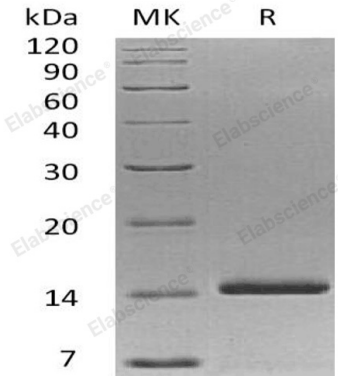
Description

Species	Human
Source	E.coli-derived Human Neurotrophin-3;NTF3 protein Tyr139-Thr 257
Calculated MW	13.6 kDa
Observed MW	14 kDa
Accession	P20783
Bio-activity	Immobilized Human TrkB (C-6His)(PKSH033579) at 5 μg/mL (100 μL/well) can bind Human NT-3(PKSH032803): Biotinylated by NHS-biotin prior to testing. The EC_{50} of Human NT-3(PKSH032803) is 15 ng/mL.

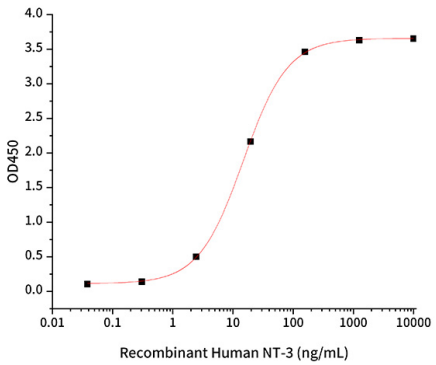
Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.01 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 PB, 250mM NaCl, pH 7.2. 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.



Immobilized Human TrkB (C-6His)(PKSH033579) at 5 μg/mL (100 μL/well) can bind Human NT-3(PKSH032803): Biotinylated by NHS-biotin prior to testing. The EC50 of Human NT-3(PKSH032803) is 15 ng/mL.

Background

Neurotrophin-3 (NT-3) is a member of the NGF family of neurotrophic factors and is structurally related to β-NGF, BDNF and NT-4. The NT3 cDNA encodes a 257 amino acid residue precursor protein with a signal peptide and a proprotein that are cleaved to yield the 119 amino acid residue mature NT3.The amino acid sequences of mature human, murine and rat NT-3 are identical. NT-3 selectively promotes the differentiation and survival of specific neuronal subpopulations in both the central as well as the peripheral nervous systems.