

Human TrkB/NTRK2 Protein

Cat. No. TKB-HM101

Description

Source	Recombinant Human TrkB/NTRK2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Cys32-His430.
Accession	AAH31835
Molecular Weight	The protein has a predicted MW of 45.2 kDa. Due to glycosylation, the protein migrates to 65-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

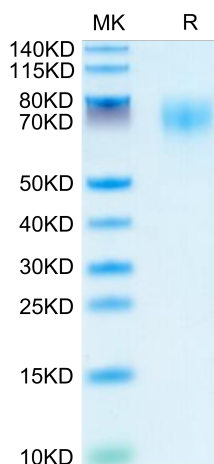
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Neuron differentiation is likely regulated by a combination of transcription and growth factors. Embryonically, most geniculate neuron development is regulated by the growth factor brain derived neurotrophic factor (BDNF). BDNF expression becomes restricted to subpopulations of taste receptor cells with specific functions, the receptor for BDNF, tropomyosin kinase B receptor (TrkB), may also become developmentally restricted to a subset of taste neurons and could be one factor that is differentially expressed across taste neuron subsets.

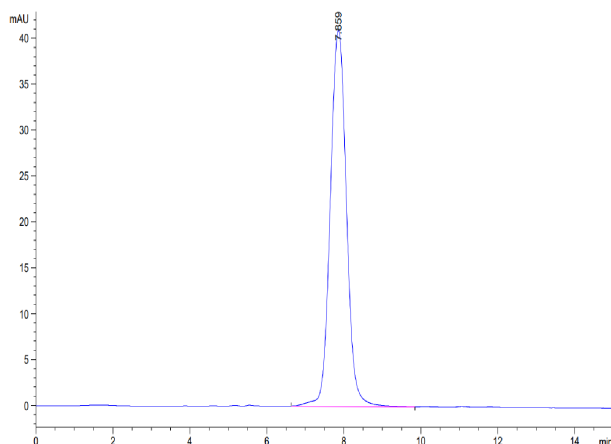
Assay Data

Bis-Tris PAGE



Human TrkB on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



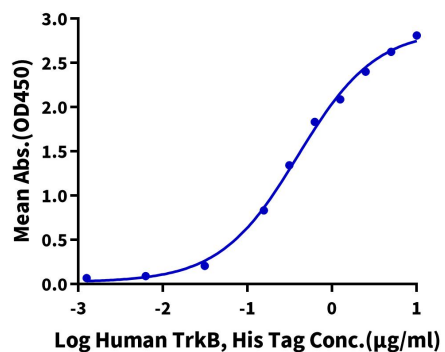
The purity of Human TrkB is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TrkB, His Tag ELISA

0.1µg Human/Murine/Rat BDNF, No Tag Per Well



Immobilized Human/Murine/Rat BDNF, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human TrkB, His Tag with the EC50 of 0.39µg/ml determined by ELISA (QC Test).