

Human TrkB/NTRK2 Protein



Cat. No. TKB-HM101

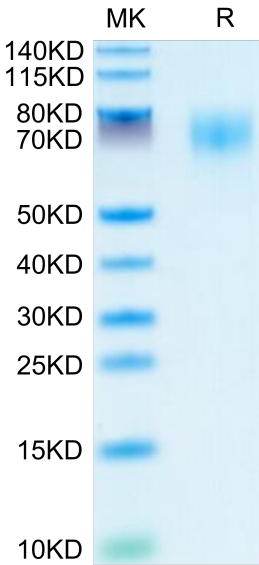
Description	
Source	Recombinant Human TrkB/NTRK2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Cys32-His430.
Accession	AAH31835
Molecular Weight	The protein has a predicted MW of 45.2 kDa. Due to glycosylation, the protein migrates to 65-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

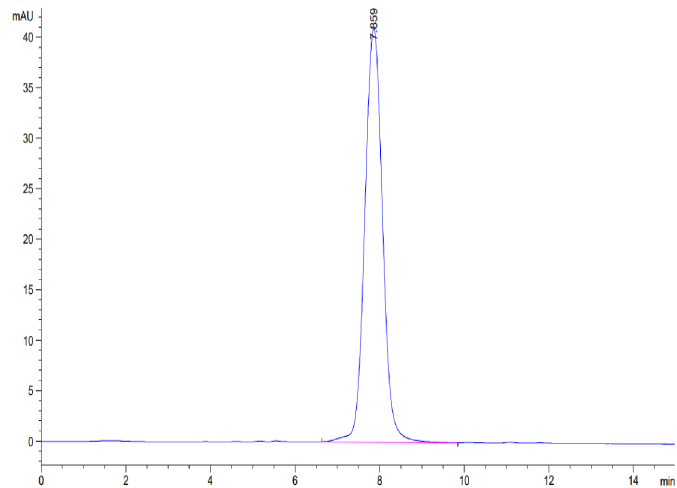
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

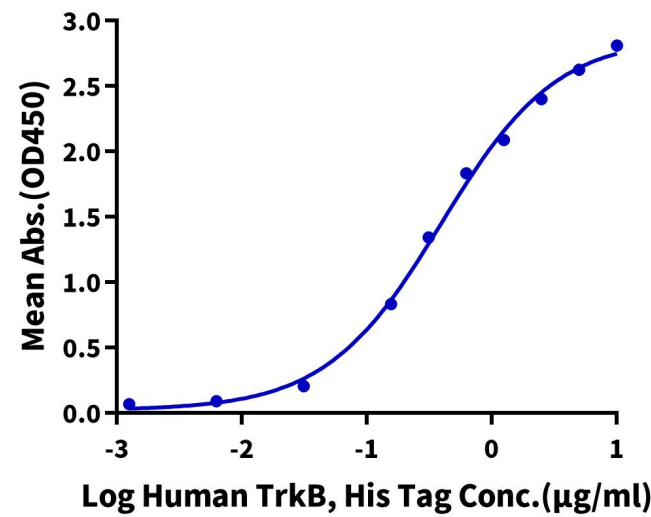


The purity of Human TrkB is greater than 95% as determined by SEC-HPLC.

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).