

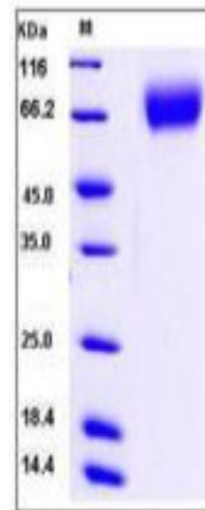
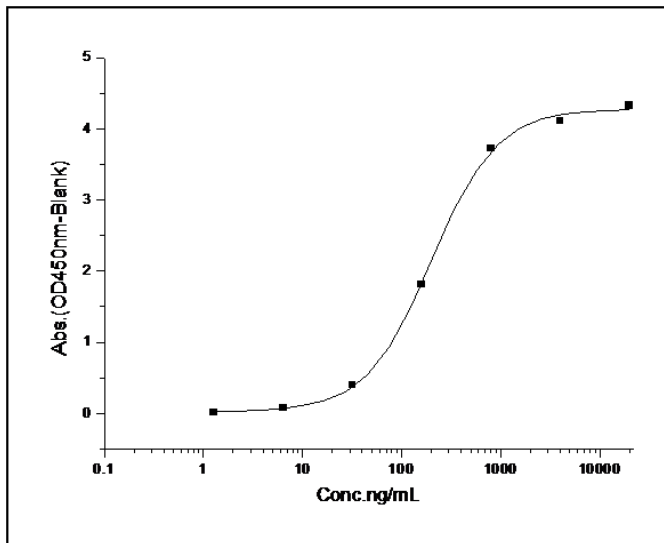
Ntrk2

Recombinant Mouse TrkB / NTRK2 (His Tag)

Catalog No.	CRM543A-His CRM543B-His	Quantity:	20 µg 50 µg
Alternate Names:	BDNF/NT-3 growth factors receptor, GP145-TrkB/GP95-TrkB, Trk-B, Neurotrophic tyrosine kinase receptor type 2, TrkB tyrosine kinase		
Description:	TrkB receptor is a single transmembrane catalytic receptors and member of the neurotrophic tyrosine receptor kinase (NTRK) family. TrkB tyrosine kinase (TrkB) or NTRK2 is coupled to the Ras, Cdc42/Rac/RhoG, MAPK, PI3-K and PLC gamma signaling pathways. There are four members of the Trk family; TrkA, TrkB and TrkC and a related p75NTR receptor. Each family member binds different neurotrophins with varying affinities. TrkB/NTRK has highest affinity for brain-derived neurotrophic factor (BDNF) and is involved in neuronal plasticity, long term potentiation and apoptosis of CNS neurons. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. TrkB/NTRK is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in TrkB/NTRK have been associated with obesity and mood disorders.		
UniProt ID:	P15209-2		
Protein Construction:	A DNA sequence encoding the extracellular domain of mouse NTRK2 (Met 1-His 429) was expressed, with a C-terminal polyhistidine tag.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted rmNTRK2 consists of 409 aa with a predicted MW of 46 kDa and migrates at ~75-85 kDa in SDS-PAGE under reducing conditions.		
Purity:	> 98 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	In a functional ELISA, immobilized recombinant Mouse/Human BDNF Protein (Native) at 10 µg/ml (100 µl/well) can bind biotinylated mouse TrkB-His with a linear range of 10-80 ng/ml.		
Predicted N-terminal:	Cys 32		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse/Human BDNF Protein (Native) at 10 µg/ml (100 µl/well) can bind biotinylated mouse TrkB-His with a linear range of 10-80 ng/ml.

SDS-PAGE



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