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Product Sheet

Human TrkB Protein; His Tag

GM-89101RP-100 / 100 μg
GM-89101RP-1000 / 1 mg

Product Information

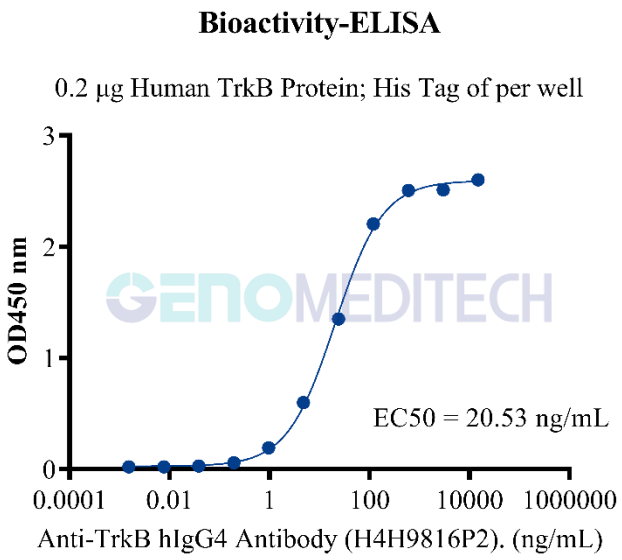
Product Name	Human TrkB Protein; His Tag
Source	Human TrkB Protein; His Tag (GM-89101RP) is expressed from human 293 cells (HEK-293). It contains AA Cys 32 - His 430 (Accession # AAH31835.1). This protein carries a His tag at the C-terminus.
Predicted MW	45.0 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	NTRK2, TRKB, GP145-TrkB
Background	TrkB (tropomyosin receptor kinase B, NTRK2) is a single-pass transmembrane receptor tyrosine kinase and the high-affinity receptor for brain-derived neurotrophic factor and neurotrophin-4, with lower affinity for neurotrophin-3. Its ectodomain contains leucine-rich repeats flanked by cysteine-rich clusters and two immunoglobulin-like domains that confer neurotrophin specificity. Ligand binding drives homodimerization and trans-autophosphorylation, creating docking sites that engage Shc, PLCγ and PI3K to activate MAPK–ERK, PLCγ–PKC and AKT cascades. These pathways govern neuronal survival, differentiation, dendritic arborization and long-term potentiation. Alternative splicing yields a truncated kinase-deficient isoform that restrains full-length signaling. NTRK2 fusions and overexpression are oncogenic drivers targetable by TRK inhibitors, whereas germline loss-of-function variants cause obesity, hyperphagia and developmental delay.

Version 4.0.26.1016

For research use only!

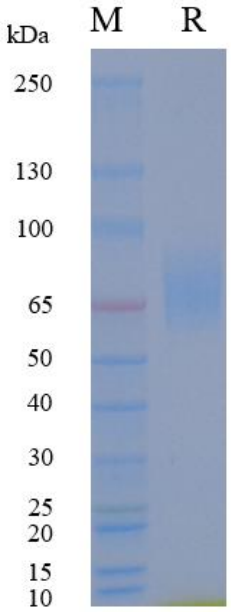
Data

Affinity



Human TrkB Protein; His Tag (Catalog # GM-89101RP) was immobilized at 2 μg/ml (100 μl/well). Increasing concentrations of Anti-TrkB hIgG4 Antibody (H4H9816P2) (Catalog # GM-88117AB) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

TRKB	
H_TrkB Reporter CHO-K1 Cell Line	
Anti-TrkB hIgG4 Antibody (H4H9816P2)	
TRKA	

H_TrkA HEK-293 Cell Line	
Anti-TrkA hIgG4 Antibody (PHD48)	
Human TrkA Protein; hFc Tag	Human TrkA Protein; His Tag

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