

Recombinant Protein Technical Manual

Recombinant Human TrkB/NTRK2 Protein (His Tag)(Active) RPES0776

Expression host: Human Cells

Product Data:

Product SKU: RPES0776	Size: 10µg

Species: Human

species. Human

Uniprot: Q16620

Protein Information:

Molecular Mass:	45.25 kDa
AP Molecular Mass:	6005 kDa
Tag:	C-His
Bio-activity:	Immobilized Human NT-3(Cat: PKSH032803) at 2μg/ml(100 μl/well) can bind Human TrkB-His. The ED50 of Human TrkB-His is 3.777ug/ml .
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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, 150mM NaCl, pH 7.2.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	BDNF/NT-3 Growth Factors Receptor; GP145-TrkB; Trk-B; Neurotrophic Tyrosine Kinase Receptor Type 2; TrkB Tyrosine Kinase; Tropomyosin-Related Kinase B; NTRK2; TRKB

Sequence: Cys32-His430

Background:

The TRK Family of Tyrosine Kinase Receptor consists of 3 members: TrkA, TrkB and TrkC. The three TRK family proteins have different ligand specificities. They connect to different neurotrophins, including NGF, BDNF, NT-3NT-4/5. TRKA binds NGF, TRKB binds BDNF and NT-3, TRKC binds NT-4/5. At the protein sequence level, human and rat TRKB have greater than 90% sequence identity and the proteins exbihit cross-species activity. TRKB is primarily expressed in the nervous system and it also expression in a wide variety of tissues with low levels.