

Recombinant Human NTRK2 Protein, His-tagged, FITC conjugated

Cat. No. NTRK2-157HF Lot. No. (See product label)

SPECIFICATION

Product Overview	FITC conjugated recombinant human NTRK2 protein (Cys32-His430) was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Cys32-His430
Description	<p>Neurotrophic tyrosine kinase receptor type 2 (NTRK2) is also known as BDNF/NT-3 growth factors receptor, Tropomyosin-related kinase B (TRKB) and TrkB tyrosine kinase, which belongs to the protein kinase superfamily or Tyr protein kinase family. Insulin receptor subfamily. NTRK2/TrkB contains two Ig-like C2-type (immunoglobulin-like) domains, two LRR (leucine-rich) repeats, one LRRCT domain, one LRRNT domain, one protein kinase domain. NTRK2/Trk-B is expressed in the central and peripheral nervous system. The catalytic activity of NTRK2 is "ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate". NTRK2/TrkB involved in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation, migration, differentiation, and synapse formation and plasticity.</p>
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 45.2 kDa. The protein migrates as 60-90 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Cys 32
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	<p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p>
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	FITC

GENE INFORMATION

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Gene Name	NTRK2
Official Symbol	NTRK2
Synonyms	OBHD; TRKB; trk-B; EIEE58; GP145-TrkB
Gene ID	4915
mRNA Refseq	NM_001007097
Protein Refseq	NP_001007098
MIM	600456
UniProt ID	Q16620

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