Recombinant Human NTRK2, GST-His

Cat. No. NTRK2-718H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TRK-B, C-terminal fragment, amino acids V526-G838, activated, N-terminal GST-HIS6 fusion protein with a Thrombin and 3C cleavage site, expressed in*Sf9*insect cells.MW = 66,818 Da.
Species	Human
Source	Sf9 Cells
Description	TrkB is the high affinity catalytic receptor for several "neurotrophins", which are small protein growth factors that induce the survival and differentiation of distinct cell populations. The neurotrophins that activate TrkB are: BDNF (Brain Derived Neurotrophic Factor), NT-4 (neurotrophin-4), and NT-3 (neurotrophin-3). As such, TrkB mediates the multiple effects of these neurotrophic factors, which includes neuronal differentiation and survival.
Purification	GST-Affinity Chromatography.
Product Identity	TRK-B was confirmed as TRK-B by mass spectroscopy LC-ESI-MS/MS.
Activation	in vitro auto-activation.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.
Concentration	0.133 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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45-1 Ramsey Road, Shirley, NY 11967, USA

	standard protein).
Specific Activity	140 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name	NTRK2 neurotrophic tyrosine kinase, receptor, type 2 [Homo sapiens]
Synonyms	NTRK2; neurotrophic tyrosine kinase, receptor, type 2; TRKB; GP145-TrkB; OTTHUMP00000021573; OTTHUMP00000021574; OTTHUMP00000021576; OTTHUMP00000021577; tyrosine kinase receptor B; BDNF/NT-3 growth factors receptor; EC 2.7.10.1
Gene ID	4915
mRNA Refseq	NM_001007097
Protein Refseq	NP_001007098
MIM	600456
UniProt ID	Q16620
Chromosome Location	9q22.1
Pathway	MAPK signaling pathway; Neurotrophin signaling pathway; Signalling by NGF
Function	ATP binding; neurotrophin receptor activity; nucleotide binding; protein binding;

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	transferase activity; transmembrane receptor protein tyrosine kinase activity
PDB rendering based on 1hcf.	

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