

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 <i>Sf9</i> 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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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;

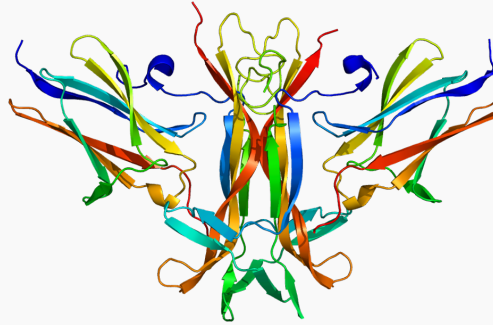
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transferase activity; transmembrane receptor protein tyrosine kinase activity

PDB rendering based
on 1hcf.



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