Product information

BDNF/NT-3 growth factors receptor, 32-430aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3264

NCBI Accession No.: NP_001018074

Synonyms: GP145-TrkB, trk-B, TRKB, NTRK2

Description: NTRK2, also known as BDNF/NT-3 growth factors receptor, is a receptor tyrosine kinase 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. It plays a role in learning and memory by regulating both short term synaptic function and long-term potentiation. Recombinant human NTRK2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

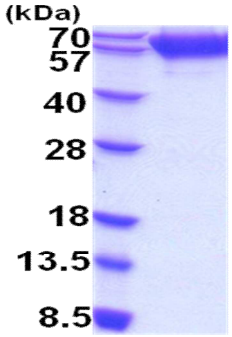
Molecular Weight: 45.2kDa (407aa)
57-70kDa (SDS-PAGE under reducing conditions)

Predicted N terminal: Cys32

Purity: > 95% by SDS – PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1μg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

Sequences of amino acids:

CPTSCKCSAS RIWCSDPSPG IVAFPRLEPN SVDPENITEI FIANQKRLEI INEDDVEAYV GLRNLTIVDS GLKFVAHKAF LKNSNLQHIN FTRNKLTSLS RKHFRHLDLS
ELILVGNPFT CSCDIMWIKT LQEAKSSPDT QDLYCLNESS KNIPLANLQI PNCGLPSANL AAPNLTVEEG KSITLSCSVA GDPVPNMYWD VGNLVSKHMN ETSHTQGSLR
ITNISSDDSG KQISCVAENL VGEDQDSVNL TVHFAPTITF LESPTSDHHW CIPFTVKGNP KPALQWFYNG AILNESKYIC TKIHVTNHTE YHGCLQLDNP THMNNGDYTL
IAKNEYGKDE KQISAHFMGW PGIDDGANPN YPDVIYEDYG TAANDIGDTT NRSNEIPSTD VTDKTGREHL EHHHHHH

General references:

Yeo GS., *et al.* (2004*) Nat Neurosci.* 7:1187-1189.

Banfield MJ., *et al.* (2001) *Structure.* 9:1191-1199.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com