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# **Recombinant Mouse TrkC Protein**

Catalog Number: ATGP3946

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

32-429aa

#### UniProt No.

O6VNS1

#### **NCBI Accession No.**

NP 032772

#### **Alternative Names**

NT-3 growth factor receptor, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, Ntrk3, AW125844, Ntrk3 tv3, TrkC

## **PRODUCT SPECIFICATION**

#### **Molecular Weight**

45.4kDa (404aa)

## **Concentration**

0.25mg/ml (determined by Absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

<1 EU per 1ug of protein (determined by LAL method)

## Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

TrkC, also known as NT-3 growth factor receptor, is part of the large family of receptor tyrosine kinases. TrkC is the high affinity catalytic receptor for the neurotrophin NT-3 (neurotrophin-3). As such, TrkC mediates the multiple effects of this neurotrophic factor, which includes neuronal differentiation and survival. Family of



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neurotrophin receptors including NTRK3 have been shown to induce a variety of pleiotorpic response in malignant cells, including enhanced tumor cell invasiveness and chemotoxis. Increased NTRK3 expression has been demonstrated in neuroblastoma, in medulloblastoma, and in neuroectodermal brain tumors. Recombinant mouse TrkC, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

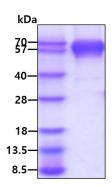
CPANCVCSKT EINCRRPDDG NLFPLLEGQD SGNSNGNASI NITDISRNIT SIHIENWRGL HTLNAVDMEL YTGLQKLTIK NSGLRNIQPR AFAKNPHLRY INLSSNRLTT LSWQLFQTLS LRELRLEQNF FNCSCDIRWM QLWQEQGEAR LDSQSLYCIS ADGSQLPLFR MNISQCDLPE ISVSHVNLTV REGDNAVITC NGSGSPLPDV DWIVTGLQSI NTHQTNLNWT NVHAINLTLV NVTSEDNGFT LTCIAENVVG MSNASVALTV YYPPRVVSLV EPEVRLEHCI EFVVRGNPTP TLHWLYNGQP LRESKIIHMD YYQEGEVSEG CLLFNKPTHY NNGNYTLIAK NALGTANQTI NGHFLKEPFP ESTDFFDFES DASPTPPITV THKPEEDT</Th>

#### **General References**

Wook jin., et al, (2010) Carcinogenesis. 11:1939-1947. Garrett M B., et al, (2009) Clin Cancer Res. 15:3244-3250. LD Huong., et al, (2012) Oral Diseases 18:513-519.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

