

Recombinant mouse Tyro3/Dtk protein

Catalog Number: ATGP3911

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

31-419aa

UniProt No.

P55144

NCBI Accession No.

NP_062265

Alternative Names

Tyro3, AI323366, Brt, Dtk, Etk-2, etk2/tyro3, Rse, Sky, Tif, tk19-1, Tyrosine-protein kinasereceptor TYRO3, Etk2/tyro3, Tyrosine-protein kinase DTK, Tyrosine-protein kinase RSE, Tyrosine-protein kinase TIF

PRODUCT SPECIFICATION

Molecular Weight

68.9 kDa (628aa)

Concentration

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

Formulation

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

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

hIgG-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

Tyro3, also known as tyrosine-protein kinase receptor TYRO3 isoform A, is one of the receptor tyrosinekinase subfamily. It transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. This protein regulates many physiological processes including cell survival, migration

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and differentiation. It activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. This protein plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Recombinant mouse Tyro3, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

AGLKLMGAPV KMTVSQGQPV KLNCVSEGM EDPDIHWMKDG TVVQNASQVS ISEHSHWIG LLSLKSVERS DAGLYWCQVK
 DGEETKISQS VWLTVGVPF FTVEPKDLAV PPNAPFQLSC EAVGPPEPVT IYWWRGLTKV GGPAPSPSVL NVTGVTQRTE
 FSCEARNIKG LATSIPAIVR LQAPPAAPFN TTVTTISSYN ASVAWVPGAD GLALLHSCTV QVAHAPGEWE ALAVVVPVPP
 FTCLLRNLAP ATNYSRLVRC ANALGSPY G DWVPFQTKGL APARAPQNFH AIRTDSGLIL EWEEVIPEDP GEGPLGPYKL
 SWVQENGTQD ELMVEGTRAN LTDWDPQKDL ILRVCASNAI GDGPWSQPLV VSSHDHAGRQ GPPHSRTSW<L
 EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ
 YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS
 DIAVEWESNG QPENNYKTP PVLDSGDSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNNH YTKSLSLSP GKHHHHHH>

General References

Shao H., et al. (2017) *Biochem Biophys Res Commun.* 490:1074-1079.
 Blades F., et al. (2018) *Glia.* 66:2209-2220.

DATA

SDS-PAGE

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

