

TIE-2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73610
Synonyms:	Angiotensin-1 receptor; CD202b; hTIE2; p140 TEK; Tie2; VMCM
Species:	Mouse
Source:	HEK293
Accession:	B1AWS8 (A23-K744)
Gene ID:	21687
Molecular Weight:	95-120 kDa

PROPERTIES

AA Sequence

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AMDLILINSL    PLVSDAETSL    TCIASGWHPH    EPITIGRDFE
ALMNQHQPDL    EVTQDVTREW    AKKVVWKREK    ASKINGAYFC
EGRVVRGQAIR    IRTMKMRQQA    SFLPATLTMT    VDRGDNVNIS
FKKVLIKEED    AVIYKNGSFI    HSVPRHEVPD    ILEVHLPHAQ
PQDAGVYSAR    YIGGNLFTSA    FTRLIVRRCE    AQKWGPDCSR
PCTTCKNNGV    CHEDTGECIC    PPGFMGRTCE    KACEPHTFGR
TCKERCSGPE    GCKSYVFCLP    DPYGCSCATG    WRGLQCNEAC
PSGYYGPDCK    LRCHCTNEEI    CDRFQGCLCS    QGWQGLQCEK
EGRPRMTPQI    EDLPDHI EVN    SGKFNPICKA    SGWPLPTSEE
MTLVKPDGTV    LQPNDFN YTD    RFSVAIFTVN    RVLPPDSGVW
VCSVNTVAGM    VEKPFNISVK    VLPEPLHAPN    VIDTGHNFAI
INISSEPYFG    DGP IKS KKL F    YKPVNQAWKY    IEVTNEIFTL
NYLEPRTDYE    LCVQLARPGE    GGEHHPGPVR    RFTTASIGLP
PPRGLSLLPK    SQTALNLTWQ    PIFTNSEDEF    YVEVERRSLQ
TTSDQQNIKV    PGNLTSVLLS    NLVPREQYTV    RARVNTKAQG
EWSEELRAWT    LSDILPPQPE    NIKISNITDS    TAMVSWTIVD
GYSISSIIIR    YKVQGKNE DQ    HIDVKIKNAT    VTQYQLKGLE
PETTYHVDIF    AENNIGSSNP    AFSHELRTLP    HSPASADLGG
G K
  
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Biological Activity

1. The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
 2. Immobilized Mouse Angiotensin-2 at 4 µg/mL (100 µL/well) can bind Biotinylated TIE2. The ED₅₀ for this effect is 460.2 ng/mL.

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is

	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

TIE-2, coded by the TEK gene, is a tyrosine kinase receptor and plays a central role in vascular stability. Ang1/Tie2 signaling is thought to regulate both maintenance of vascular quiescence and promotion of angiogenesis^[1].

The angiopoietin(Ang)/Tie2 system is a key regulator of vascular biology. The expression of membrane bound (mb) Tie2 and Ang-1 ensures vessel stability, whereas Ang-2, inducible by vascular endothelial growth factor (VEGF), hypoxia, and inflammation, acts as an antagonist. Tie2 signalling is also attenuated by soluble Tie2 (sTie2), the extracellular domain of the receptor, which is shed upon stimulation with VEGF^[2].

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA