Nrp1, 22-856aa, Mouse, His tag, Baculovirus

Cat.NO.: TP03202

3th Edition

Synonyms: Neuropilin-1, Nrp1, C530029I03, NP-1, NPN-1, Npn1, Nrp

Description: Nrp1, also known as Neuropilin 1, is a transmembrane glycoprotein that acts as a co-receptor for a number of extracellular ligands including class III/IV semaphorins, certain isoforms of vascular endothelial growth factor and transforming growth factor beta. It binds vascular endothelial growth factor (VEGF)-A and is thought to act as a coreceptor for kinase insert domain-containing receptor (KDR) by associating with KDR and enhancing VEGF signaling. It is a marker of regulatory T cells. Recombinant mouse Nrp1, 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 20% glycerol.

Molecular Weight:94.7kDa (843aa); 100-150KDa (SDS-PAGE under reducing conditions)

Sequences:
FRSDKCGGTIKIENPGYLTSPGYPHSYHPSEKCEWLIQAPEPYQRIMINFNPHFDLEDRDCKYDYVEVIDGENEGGR
LWGKFCGKIAPSPVVSSGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTAPTGVIKSPGFPEKYPNSLECTYII
FAPKMSEIILEFESFDLEQDSNPPGGMFCRYDRLEIWDGFPEVGPHIGRYCGQKTPGRIRSSSGVLSMVFYTDSAIA
KEGFSANYSVLQSSISEDFKCMEALGMESGEIHSDQITASSQYGTNWSVERSRLNYPENGWTPGEDSYKEWIQVD
LGLLRFVTAVGTQGAISKETKKKYYVKTYRVDISSNGEDWISLKEGNKAIIFQGNTNPTDVVLGVFSKPLITRFVRIKP
VSWETGISMRFEVYGCKITDYPCSGMLGMVSGLISDSQITASNQADRNWMPENIRLVTSRTGWALPPSPHPYTNE
WLQVDLGDEKIVRGVIIQGGKHRENKVFMRKFKIAYSNNGSDWKTIMDDSKRKAKSFEGNNNYDTPELRTFSPLST
RFIRIYPERATHSGLGLRMELLGCEVEAPTAGPTTPNGNPVDECDDDQANCHSGTGDDFQLTGGTTVLATEKPTIID
STIQSEFPTYGFNCEFGWGSHKTFCHWEHDSHAQLRWSVLTSKTGPIQDHTGDGNFIYSQADENQKGKVARLVSP
VVYSQSSAHCMTFWYHMSGSHVGTLRVKLRYQKPEEYDQLVWMVVGHQGDHWKEGRVLLHKSLKLYQVIFEGEI
GKGNLGGIAVDDISINNHISQEDCAKPTDLDKKNTEIKIDETGSTPGYEGEGEGDKNISRKPGNVLKTLDPLEHHHHH
H

Purity:> 95% by HPLC

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

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

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.