

Nrp1, 22-855aa, Rat, His tag, Baculovirus

Cat.NO.: TP03201

3th Edition

Synonyms:Neuropilin-1, Nrp1, NRP

Description:Nrp1, also known as neuropilin-1, is a transmembrane glycoprotein that regulates axon guidance and angiogenesis. It acts as a receptor for two different extracellular ligands, class 3 semaphorins and specific isoforms of vascular endothelial growth factor. It is likely to mediate contacts between the dendritic cells and the T lymphocytes via homotypic interactions and is essential for the initiation of the primary immune response. Recombinant rat 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 10% glycerol.

Molecular Weight:94.8kDa (842aa); 100-150kDa (SDS-PAGE under reducing conditions)

Sequences:

FRSDKCGGTIKIENPGYLTSPGYPHSYHPSEKCEWLIQAPEPYQRIMINFNPHFDLEDRDCKYDYVEVIDGENEGGR
LWGKFCGKIAPSPVSSGPFLFIKVFSDYETHGAGFSIRYEIFKRGPECSQNYTAPTGVIKSPGFPEKYDNSLECTYII
FAPKMSEIILEFESFDLEQDSNPPGGVFCRYDRLEIWDGFPEVGPVHIGRYCGQKTPGRIRSSSGILSMVFYTDSDIAK
EGFSANYSVLQSSISEDFKCMEALGMESGEIHSDQITASSQYGTNWSVERSRLNYPENGWTPGEDSYREWIQVDL
GLLRFVTAAGTQGAISKETKKKYVVKTYRVDISSNGEDWITLKEGNKAIIFQGNTPDVFVGFVFPKPLITRFVRIKPA
SWETGISMRFVYGGKITDYPCSGMLGMVSGLISDSQITASNQGDRNWMPENIRLVTSRTGWALPPSPHPYINEWL
QVDLGDEKIVRGVVIQGGKHRENKVFMRKFKIAYSNNGSDWKMIMDDSKRKAKEFEGNNNYDTPELRAFTPLSTRFI
RIYPERATHSGLGLRMELLGCEVEVPTAGPTTPNGNPVDECDQANCHSGTGDDFQLTGGTTVLATEKPTIIDSTI
QSEFPTYGFNCEFGWGSHTFCHWEHDSHAQLRWRVLTSTGPIQDHTGDGNFIYSQADENQKGGKVARLVSPVV
YSQSSAHCMTFWYHMSGSHVGTLRVKLHYQKPEEYDQLVWVVGHQGDHWKEGRVLLHKSLKLYQVIFEGEIGK
GNLGGIAVDDISNNHIPQEDCAKPTDLDKKNTKIDETGSTPGYEEGKGDKNISRKPGNVLKTLDPLEHHHHHH

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.