



Slit2 Recombinant Protein

CATALOG NUMBER: 40-494

Specifications

SPECIES:	Human
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	<p>ACPAQCSCSG STVDCHGLAL RSVPRNIPRN TERLDLNGNN ITRITKTDFG GLRHLRLVLQL MENKISTIER GAFQDLKELE RLRLNRNHLQ LPPELLFLGT AKLYRLDLSE NQIQAIIPKA FRGAVDIKNL QLDYNQISCI EDGAFRALRD LEVLTLNNNN ITRLSVASFN HMPKLRTERL HSNLYCDCH LAWLSDWLRQ RPRVGLYTQC MGPSHLRGHN VAEVQKREFV CSGHQSFMAP SCSVLHCPAA CTCNNIVDC RGKGLTEIPT NLPETITEIR LEQNTIKVIP PGAFSPIYKKL RRIDLSNNQI SELAPDAFQG LRSLNSLVLY GNKITEPKS LFEGFLSLQL LLNANKINC LRVDAFQDLH NLNLSLYDN KLQTIAGTF SPLRAIQTMH LAQNPFCDC HLKWLADYLH TNPIETSGAR CTSPRLANK RIGQIKSKKF RCSAKEQYFI PGTEDYRSKL SGDCFADLAC PEKCRCEGTT VDCSNQKLNK IPEHIPQYTA ELRLNNEFT VLEATGIFKK LPQLRKINFS NNKITDIEEG AFEGASGVNE ILLTSNRLEN VQHKMFKGLK SLKTLMLRSN RITCVGNDSF IGLSSVRLS LYDNQITTVA PGAFDTLHSL STLNLNLPF NCNCLAWLG EWLKRRIVT GNPRCQKPYF LKEPIQDVA IQDFTCDDGN DDNSCSPLSR CPTECTCLDT VVRCSNKGK VLPKGIPRDV TELYLDGNQF TLVPKELSNY KHLTLIDLSN NRISTLSNQS FSNMTQLLTL ILSYNRLRCI PPRTFDGLKS LRLSLHGND ISVVEGAFN DLSALSHLAI GANPLYCDCN MQWLSDWVKS EYKEPGIARC AGPGEMADKL LLTPSKKFT CQGPVDVNIL AKCNPCLSNP CKNDGTCNSD PVDYRCTCP YGFGQDCDV PIHACISNPC KHGGTCHLKE GEEDGFWCIC ADGFEGENCE VNVDDCEDND CENNSTCVDG INNYTCLCPP EYTGELCEEK LDFCAQDLNP CQHDSKCILT PKGFKCDCTP GYVGEHCDID FDDCQDNKCK NGAHCTDAVN GYTICPEGY SGLFCEFSPP MV</p>
TESTED APPLICATIONS:	

Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses.
	Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized Slit2 recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Slit2 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing Slit2 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	SLIL3, Slit-2, SLIL3, Slit homolog 2 protein
ACCESSION NO.:	NP_001276065.1
PROTEIN GI NO.:	574281382

Background

Slit2 is a member of the Slit family that signals through the Roundabout (Robo) receptor as a repellent for axon guidance and neuronal migration, and can also act as a chemoattractant to vascular endothelial cells and a chemotaxis inhibitor for leukocytes. Slit2 is expressed primarily in the fetal lung, kidney, and adult spinal cord, and to a lesser extent in adult adrenal gland, thyroid and trachea. Slit2 is initially synthesized as a 1499 amino

acid precursor, which is subsequently cleaved into N-terminal and C-terminal fragments, designated as Slit2-N and Slit2-C respectively. The neurodevelopment related activities, as measured by the ability to repel olfactory bulb axons and to induce branching in dorsal root ganglia axons, are contained only in the N-terminal fragment. Recombinant human Slit2-N is a 1088 amino acid glycoprotein corresponding to the N-terminal portion of the full length Slit2 precursor. Due to glycosylation Slit2-N migrates at an apparent molecular weight of approximately 120.0-140.0 kDa by SDS-PAGE analysis under reducing conditions.

FOR RESEARCH USE ONLY

December 13, 2016