

Recombinant Full Length Human SLIT2 Protein, C-Flag-tagged

Cat. No. SLIT2-1147HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SLIT2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the slit family of secreted glycoproteins, which are ligands for the Robo family of immunoglobulin receptors. Slit proteins play highly conserved roles in axon guidance and neuronal migration and may also have functions during other cell migration processes including leukocyte migration. Members of the slit family are characterized by an N-terminal signal peptide, four leucine-rich repeats, nine epidermal growth factor repeats, and a C-terminal cysteine knot. Proteolytic processing of this protein gives rise to an N-terminal fragment that contains the four leucine-rich repeats and five epidermal growth factor repeats and a C-terminal fragment that contains four epidermal growth factor repeats and the cysteine knot. Both full length and cleaved proteins are secreted extracellularly and can function in axon repulsion as well as other specific processes. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	169.7 kDa
AA Sequence	MRGVGWQMLSLSLGLVLAILNKVAPQACPAQCSCSGSTVDCHGLALRSVPRNIPRN

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TERLDLNGNNITRI TKTDFAGLRHLRVLQLMENKISTIERGAFQDLKELERLRLNRNH
LQLFPELLFLGTAKLYRLDLSENQIQ AIPRKAFRGAVDIKNLQLDYNQISCIEDGAFA
LRDLEVLTNNNNITRLSVASFNHMPKLRTFRLHSNN LYCDCHLAWLSDWLRQRPR
VGLYTQCMGPSHLRGHNVAEVQKREFVCSGHQSFMAPSCSVLHCPAACTCS NNIV
DCRGKGLTEIPTNLPETITEIRLEQNTIKVIPPGAFSPYKKLRRIDLSNNQISELAPDAF
QGLRSL NSLVLYGNKITELPKSLFEGFLSLQLLLLNANKINCLRVDAFQDLHNLNLLSL
YDNKLQTIAGTFSPLR AIQTMHLAQNPFCDCHLKWLADYLHTNPIETSGARCTSP
RRLANKRIGQIKSKKFRCSAKEQYFIPGTE DYRSKLSGDCFADLACPEKCRCEGTTV
DCSNQKLNKIPEHIPQYTAELRLNNNEFTVLEATGIFKKLPQL RKINFSNNKITDIEEG
AFEGASGVNEILLTSNRLENVQHMKFGLSKTLMLRSNRITCVGNDSFIGLS SVR
LLSLYDNQITTVAPGAFDTLHSLSTLNLLANPFNCNCYLAWLGEWLRKKRIVTGNPR
CQKPYFLKEI PIQDVAIQDFTCDDGNDNCSPLSRCPTTECTCLDTVVRCSNKGKLV
LPKGIPRDVTELYLDGNQFTLVP KELSNYKHLTLIDLSNNRISTLSNQSFNMTQLLT
LILSYNRLRCIPPRTFDGLKSLRLLSLHGNDISVV PEGAFNDLSALSHLAIGANPLYCD
CNMQWLSDWVKSEYKEPGIARCAGPGEMADKLLTTPSKKFTCQGP VDVNILAKC
NPCLSNPCKNDGTCNSDPVDFYRCTCPYGFKGQDCDVPIHACISNPCKHGGTCHLK
EGEED GFWCICADGFEGENCEVNVDDCEDNDCENNSTCVDGINNYTCLCPPEYTG
ELCEVKLDFCAQDLNPCQHD SKCILTPKGFKCDCTPGYVGEHCDIDFDDCQDNKCK
NGAHCTDAVNGYTCICPEGYSGLFCEFSPPMVLP RTSPCDNFDCQNGAQCIVRINE
PICQCLPGYQGEKCEKLVSVNFINKESYLQIPSAKVRPQTNITLQIAT DEDSGILLYKG
DKDHIARELYRGRVRASYDTGSHPASAIYSVETINDGNFHIVELLALDQSLSLSDVGG
N PKIITNLSKQSTLNFDSPLYVGGMPGKSNVASLRQAPGQNGTSFHGCIRNLYINSE
LQDFQKVPMQTGIL PGCEPCHKKVCAGHGCQPSQAGFTCECQEGWMGPLCDQR
TNDPCLGNKCVHGTCLPINAFSYSCKLEG HGGVLCDEEEDLFNPCQAIKCKHKGK
RLSGLGQPYCECSSGYTGDSCDREISCRGERIRDYYQKQQGYAA
CQTTKKVSRLECRGGCAGGQCCGPLRSKRRKYSFECTDGSSFVDEVEKVVKCGCT
RCVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Axon guidance
Full Length	Full L.

GENE INFORMATION

Gene Name	SLIT2 slit guidance ligand 2 [Homo sapiens (human)]
Official Symbol	SLIT2
Synonyms	SLIL3; Slit-2
Gene ID	9353
mRNA Refseq	NM_004787.4
Protein Refseq	NP_004778.1
MIM	603746

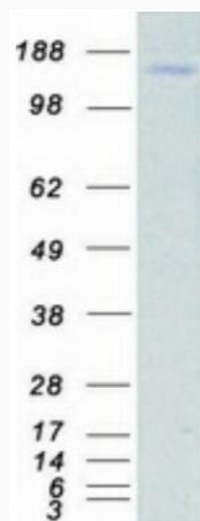
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UniProt ID

O94813



Coomassie blue staining of purified SLIT2 protein.

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