# Slit2-N Human HEK293 cells

## Product Data Sheet

**Type:** Recombinant
**Source:** HEK293 cells
**Species:** Human
**Other names:** Slit homolog 2 protein, SLIL3

**Cat. No.:**

| | |
|---|---|
| RBG10297005 | (5 µg) |
| RBG10297025 | (25 µg) |
| RBG10297100 | (100 µg) |

## Description

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 also acts 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 the 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 1093 amino acid glycoprotein corresponding to the N-terminal portion of the full length Slit2 precursor, and has a calculated, theoretical molecular weight of 122.35 kDa. 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.

## Research topic

Chemokines, Cytokines and chemokines and related molecules, Neural tissue markers

## Amino Acid Sequence

```
QACPAQCSCS GSTVDCHGLA LRSVPRNIPR NTERLDLNGN NITRITKTDF AGLRHLRVLQ LMENKISTIE RGAFQDLKEL
ERLRLNRNHL QLFPELLFLG TAKLYRLDLS ENQIQAIPRK AFRGAVDIKN LQLDYNQISC IEDGAFRALR DLEVLTLNNN
NITRLSVASF NHMPKLRTFR LHSNNLYCDC HLAWLSDWLR QRPRVGLYTQ CMGPSHLRGH NVAEVQKREF VCSGHQSFMA
PSCSVLHCPA ACTCSNNIVD CRGKGLTEIP TNLPETITEI RLEQNTIKVI PPGAFSPYKK LRRIDLSNNQ ISELAPDAFQ
GLRSLNSLVL YGNKITELPK SLFEGLFSLQ LLLLNANKIN CLRVDAFQDL HNLNLLSLYD NKLQTIAKGT FSPLRAIQTM
HLAQNPFICD CHLKWLADYL HTNPIETSGA RCTSPRRLAN KRIGQIKSKK FRCSAKEQYF IPGTEDYRSK LSGDCFADLA
CPEKCRCEGT TVDCSNQKLN KIPEHIPQYT AELRLNNNEF TVLEATGIFK KLPQLRKINF SNNKITDIEE GAFEGASGVN
EILLTSNRLE NVQHKMFKGL ESLKTLMLRS NRITCVGNDS FIGLSSVRLL SLYDNQITTV APGAFDTLHS LSTLNLLANP
FNCNCYLAWL GEWLRKKRIV TGNPRCQKPY FLKEIPIQDV AIQDFTCDDG NDDNSCSPLS RCPTECTCLD TVVRCSNKGL
KVLPKGIPRD VTELYLDGNQ FTLVPKELSN YKHLTLIDLS NNRISTLSNQ SFSNMTQLLT LILSYNRLRC IPPRTFDGLK
SLRLLSLHGN DISVVPEGAF NDLSALSHLA IGANPLYCDC NMQWLSDWVK SEYKEPGIAR CAGPGEMADK LLLTTPSKKF
TCQGPVDVNI LAKCNPCLSN PCKNDGTCNS DPVDFYRCTC PYGFKGQDCD VPIHACISNP CKHGGTCHLK EGEEDGFWCI
CADGFEGENC EVNVDDCEDN DCENNSTCVD GINNYTCLCP PEYTGELCEE KLDFCAQDLN PCQHDSKCIL TPKGFKCDCT
PGYVGEHCDI DFDDCQDNKC KNGAHCTDAV NGYTCICPEG YSGLFCEFSP PMV
```

## Source

HEK293 cells

## Purity

98%

## Biological Activity

Determined by its ability to inhibit MC3T3/E1 osteoblasts cell differentiation.

## Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

## Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 20mM Tris, pH 8.8 + 150mM NaCl to a concentration of 0.1-1.0mg/ml. Note: Slow to dissolve. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at-20°C to -80°C.

## Storage, Stability/Shelf Life

-20°C


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