

Recombinant Human SLIT2 Protein (Cys1416-Val1528), His tagged

Cat. No. SLIT2-3300H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human SLIT2 (Cys1416-Val1528) protein fused with His tag was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

Cys1416-Val1528

Description

Thought to act as molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions. SLIT1 and SLIT2 seem to be essential for midline guidance in the forebrain by acting as repulsive signal preventing inappropriate midline crossing by axons projecting from the olfactory bulb. In spinal chord development may play a role in guiding commissural axons once they reached the floor plate by modulating the response to netrin. In vitro, silences the attractive effect of NTN1 but not its growth-stimulatory effect and silencing requires the formation of a ROBO1-DCC complex. May be implicated in spinal chord midline post-crossing axon repulsion. In vitro, only commissural axons that crossed the midline responded to SLIT2. In the developing visual system appears to function as repellent for retinal ganglion axons by providing a repulsion that directs these axons along their appropriate paths prior to, and after passage through, the optic chiasm. In vitro,

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collapses and repels retinal ganglion cell growth cones. Seems to play a role in branching and arborization of CNS sensory axons, and in neuronal cell migration. In vitro, Slit homolog 2 protein N-product, but not Slit homolog 2 protein C-product, repels olfactory bulb (OB) but not dorsal root ganglia (DRG) axons, induces OB growth cones collapse and induces branching of DRG axons. Seems to be involved in regulating leukocyte migration.

Molecular Mass 14.4 kDa

Purity >90 % as determined by SDS-PAGE.

Notes For research use only.

Storage Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.

Storage Buffer Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.

Reconstitution Reconstitute in sterile water for a stock solution.

Shipping In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name [SLIT2 slit homolog 2 \(Drosophila\) \[Homo sapiens \(human\) \]](#)

Official Symbol [SLIT2](#)

Synonyms SLIT2; slit homolog 2 (Drosophila); SLIL3, slit (Drosophila) homolog 2; slit homolog 2

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protein; Slit 2; SLIL3; Slit-2; FLJ14420;

Gene ID [9353](#)

mRNA Refseq [NM_004787](#)

Protein Refseq [NP_004778](#)

MIM [603746](#)

UniProt ID [O94813](#)

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