

32-8446: Recombinant Mouse Semaphorin-4A/SEMA4A (C-6His)(Discontinued)

Gene : Sema4a

Gene ID : 20351

Uniprot ID : Q62178

Description

Source: Human Cells.

MW :72.7kD.

Recombinant Mouse Semaphorin 4A is produced by our Mammalian expression system and the target gene encoding Thr33-His682 is expressed with a 6His tag at the C-terminus. Semaphorin-4A (SEMA4A) belongs to the semaphorin family which contains a Ig-like C2-type domain, a PSI domain and a Sema domain. SEMA4A is expressed from day 10 in the embryo, and low levels are found between days 10-12. SEMA4A is a cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling. It plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity. SEMA4A promotes phosphorylation of TIMD2, inhibits angiogenesis, and promotes axon growth cone collapse, Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : TGGQGPMRVKYHAGDGHRLSFFQQKGLRDFDTLLLSDDGNTLYVGAREAVLALNIQNPPIPRLKNMIPWPA
SERKKTECAFKKKSNETQCFNFIRVLVSYNATHLYACGTFAFSPACTFIELQDSLPIIDKVMGKQSPFDPV
HKHTAVLVDGMLYSGMTMNNFLGSEPIMLRTLGSQPVLKTDIFLRWLHADASFVAIPSTQVVYFFFEETASEFDF
FEELYISRVAQVCKNDVGGKLLQKKWTTFLKAQLLCAQPGQLPFNIIRHAVLLPADSPSVSRIYAVFTSQWQVG
GTRSSAVCAFSLTDIERVFKGKYKELNKETSRWTTYRGSEVSPRPGSCSMGPSSDKALTFMKDHFLMDEHVVG
TPLLKSGVEYTRLAVESARGLDGSSHVVMYLGSTGSLHKAVVPQDSSAYLVEEIQSPDSEVPRNLQLAPAQ
GAVFAGFSGGIWRVPRANCSVYESCVDCVLARDPHCAWDPE SRLCSLLSGSTKPWKQDMERGNPEWVCTRG
PMARSPRRQSPQLIKEVLTVPNSILELPCPHLSALASYHWSHGKAKISEASATVYNGSLLLLPQDGVGGGLYQCV
ATENGYSYPVVSYWVDSQDQPLALDPELAGVPRERVRVPLTRVGGGASMAAQRSYWPVVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.