

Recombinant Rat SEMA3A Protein (21-772 aa), His-tagged

Cat. No. SEMA3A-1950R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SEMA3A Protein (21-772 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	E.coli
ProteinLength	21-772 aa
Description	May be involved in guiding growing axons towards their targets by forming a molecular boundary that instructs axons to engage in the formation of specific nerve tracts. Binds to neuropilin. Involved in the development of the olfactory system and in neuronal control of puberty.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	90.6 kDa
AA Sequence	NYANGKNNVPRLKLSYKEMLESNNVITFENGLANSSSYHTFLLDEERSRLYVGAKDHI FSFNLVNIKDFQKIVWPVSYTRRDECKWAGKDILKECANFIKVLKAYNQTHLYACGT GAFHPICTYIEVGHHHPEDNIFKLQDSHFENGRGKSPYDPKLLTASLLIDGELYSGTAA DFMGRDFAIFRTLGHHHPIRTEQHDNRWLNDPRFISAHLIPESDNPEDDKVYFFFRE NAIDGEHSGKATHARIGQICKNDFGGHRSVLNKWTTFLKARLICSVPGPNGIDTHFD ELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSVCMYSMSDVRRVFLGPYAHRDGP

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NYQWVPYQGRVPYPRPGTCPSKTFGGFDSTKDLRDDVITFARSHPAMYNPVFPINN
 RPIMIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSVPKETWHDLEEV
 LLEEMTVFREPTTISAMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARD
 PYCAWDGSSCSRYFPTAKRRTRRRQDIRNGDPLTHCSDLQHHDNHHGHSLEERIIYG
 VENSSTFLECSPKSQRALVYWQFQRRNEDRKEEIRVGDHIIIRTEQGLLLRSLQKKDS
 GNYLCHAVEHGFMTLLKVTLEVIDTEHLEELLHKDDGDGSGTKEMSSSMTPSQK
 VWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPQHSQGSSNKWKHMQES
 KKGRNRRTHEFERAPRSV

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name Sema3a sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A [*Rattus norvegicus*]

Official Symbol SEMA3A

Synonyms SEMA3A; semaphorin-3A; sema III; Semaphorin 3a; semaphorin III;

Gene ID 29751

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mRNA Refseq	NM_017310
Protein Refseq	NP_059006
UniProt ID	Q63548

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