

SEMA3A Protein, Rat, Recombinant (His)

General Information

Synonyms: Sema3a;Semaphorin-3A;Semaphorin III (Sema III)

Protein Construction: 21-772 aa

Species: Rat

Expression Host: E. coli

Accession: Q63548

Molecular Weight: 90.6 kDa (predicted)

AA Sequence:

NYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLYVGAKDHIFSFLVNIKDFQKIVW
PVSYTRRDECKWAGKDILKECANFIKVLKAYNQTHLYACGTGAFHPICITYIEVGHHPEDNIFKLQDSHFENGR
GKSPYDPKLLTASLLIDGELYSGTAADFMRDFAIFRTLGHHPHPIRTEQHDSRWLNDPRFISAHLIPESDNPED
DKVYFFRENAIDGESHGKATHARIGQICKNDFGGHRSVLNKWTTFLKARLICSVPGPNGIDTHFDELQDVFL
MNSKDPKNPIVYGVFTTSSNIFKGSVCMYSMSDVRVFLGYPYAHRDGPYQWVPYQGRVPYPRPGTCSK
TFGGFDSTKDLDDVITFARSHPAMYNPVFPINNRPIMIKTDVNYQFTQIVVDRVDAEDGGYDVMFIGTDVGT
VLKVVSVPKETWHDLEEVLLEEMTVFREPTTISAMELSTKQQLYIGSTAGVAQLPLHRCDIYGKACAECCCLAR
DPYCAWDGSSCSRYFPTAKRRRRQDIRNGDPLTHCSDLQHHDNHHGHSLEERIIYGVENSSTFLECSPKSQ
RALVYWQFQRRNEDRKEEIRVGDHIIIRTEQGLLLRSLQKKDSGNYLCHAVEHGFMQTLLKVTLEVIDTEHLEEL
LHKDDDGDGSKTKEMSSMTPSQKVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHSSQSSN
KWKHMQUESKGRNRRTHEFERAPRSV

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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