

## Semaphorin-3B/SEMA3B Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms: Semaphorin-3B;Sema A(V);SEMA3B;SEMAA;SEMA5;Semaphorin-V (Sema V)

Protein Construction: 25-749 aa

Species: Human

Expression Host: Baculovirus Insect Cells

Accession: Q13214

Molecular Weight: 84.8 kDa (predicted)

AA Sequence: APSPRLLSFQELQAWHGLQTFSLERTCCYQALLVDEERGLFVGAENHVASLNLDNISKRAKKLAWPAPV  
EWREECNWAGKDIGTECMNFVLLHAYNRTHLLACGTGAFHPTCAFVEVGHRAEEPVLRLDPGRIEDGKGS  
PYDPRHRAASVLVGEELYSGVAADLMGRDFTIFRSLGQRPSLRTEPHDSRWLNPKFVKVFWIPESENPD  
KIYFFRETAVEAAPALGRLSVSRVQICRNDVGGQRSLVKNKWTFLKARLVCSVPGVEGDTHFDQLQDVLL  
SSRDHRTPLLYAVFSTSSSIFQGSAVCVYSMNDVRRRAFLGPFHKEGPMHQWVSYQGRVPYPRPGMCP  
SKT  
FGTFSSTKDFPDDVIQFARNHPLMYNSVLPTGGRPLFLQVGANYTFTQIAADRVAADGHYDVLFIGTDV  
GTV  
LKVISVPKGSRPSAEGLLLEELHVFEDSAAVTSMQISSKRHQLYVASRSAVAQIALHRCAAHGRVCTECL  
LARD  
PYCAWDGVACTRFPQSAKRFRQRDVRNGDPSTLCSGSDSSRPALLEHKVFGVEGSSAFLECEPRSLQ  
ARVE  
WTFQRAGVTAHTQVLAERTERTARGLLRRLRRRDSGVYLCAAVEQGFTQPLRRLSLHVLVSATQAERL  
ARAE  
EAAPAAPPGPKLWYRDFLQLVEPGGGGSANSLRMCRPQALQSLPLESRRKGRNRRTHAPEPRAERG  
PRSA  
THW

## 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: > 85% as determined by SDS-PAGE.

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

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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.

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**Protein Background**

Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.

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