# Semaphorin-2a (SEMA-2a) Drosophila Melanogaster Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Semaphorin-2A (Sema-2a), Recombinant Protein |
| **Full Product Name** | Recombinant Drosophila melanogaster Semaphorin-2A (Sema-2a), partial |
| **Product Gene Name** | Sema-2a recombinant protein |
| **Product Synonym Gene Name** | Sema-2a |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 81,050 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q24323 |
| **Species** | Drosophila melanogaster (Fruit fly) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Sema-2a recombinant protein** | MBS1454933 is a recombinant protein targeting Sema-2a. Also known as Recombinant Drosophila melanogaster Semaphorin-2A (Sema-2a), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of Sema-2a recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sema-2a. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 17137800 |
| **NCBI GeneID** | 36846 |
| **NCBI Accession #** | NP_477507.1 |
| **UniProt Primary Accession #** | Q24323 |
| **UniProt Secondary Accession #** | Q0E954; Q6NN47; Q7KRC9; Q8MLF1; Q9V7Q7 |
| **UniProt Related Accession #** | Q24323 |
| **GenBank Nucleotide #** | NM_058159.5 |
| **NCBI Official Full Name** | semaphorin 2a, isoform A |

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| **NCBI Official Synonym Full Names** | Semaphorin 2a |
| **NCBI Official Symbol** | Sema2a |
| **NCBI Official Synonym Symbols** | 112/40; BcDNA:LD09561; CG4700; CT14922; D-Sema II; D-Sema-II; D-Sema2a; D-semaII; D-SemaII; DmelCG4700; dSema-II; Dsema-II; l(2)03021; sema 2a; sema II; sema-2a; Sema-2a; sema-II; sema2a; semaII; SemaII |
| **UniProt Protein Name** | Semaphorin-2A |
| **UniProt Synonym Protein Names** | Semaphorin-II |
| **Protein Family** | Semaphorin |
| **UniProt Gene Name** | Sema2a |
| **UniProt Synonym Gene Names** | Sema II |
| **NCBI Protein Information** | CG4700 gene product from transcript CG4700-RC |
| **UniProt Comments for Sema-2a** | Plays a role in growth cones guidance. Required for both proper adult behavior and survival. Can function in vivo as a selective target-derived signal that inhibits the formation of specific synaptic terminal arbors. |
| **Research Articles on Sema-2a** | **1.** PlexB is a receptor for the secreted semaphorin Sema-2a |
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