

Biotinylated Human Semaphorin 4A/SEMA4A Protein



Cat. No. SEM-HM44AB

| Description      |                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Biotinylated Human Semaphorin 4A/SEMA4A Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.<br>It contains Gly33-His683. |
| Accession        | Q9H3S1-1                                                                                                                                                      |
| Molecular Weight | The protein has a predicted MW of 75.31 kDa. Due to glycosylation, the protein migrates to 85-95 kDa based on Bis-Tris PAGE result.                           |
| Endotoxin        | Less than 0.1 EU per µg by the LAL method.                                                                                                                    |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC                                                                                           |

| Formulation and Storage |                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation             | Supplied as 0.22 µm filtered solution in PBS (pH 7.4).                                                                                                                           |
| Storage                 | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

| Background                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Neuroimmune semaphorin 4A (Sema4A), a member of semaphorin family of transmembrane and secreted proteins, is an important regulator of neuronal and immune functions. In the nervous system, Sema4A primarily regulates the functional activity of neurons serving as an axon guidance molecule. In the immune system, Sema4A regulates immune cell activation and function, instructing a fine tuning of the immune response. |  |

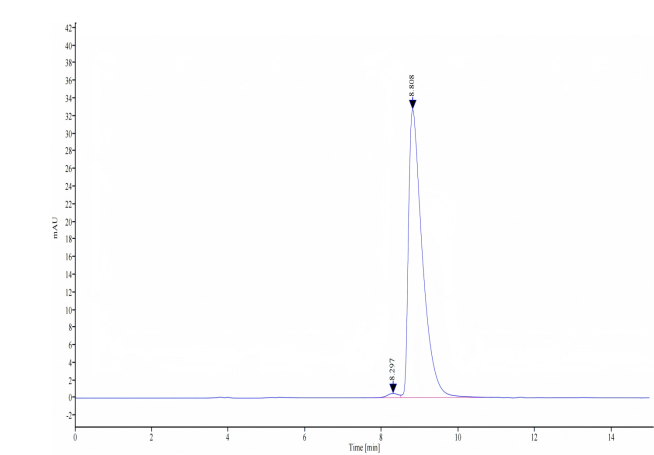
Assay Data

Bis-Tris PAGE



Biotinylated Human Semaphorin 4A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human Semaphorin 4A is greater than 95% as determined by SEC-HPLC.