

Catalog No.: RP03509 **Recombinant**

Species	Gene ID	Swiss Prot
Human	10371	O14563

N-His

SEMA3A; SEMAD□Semaphorin-3A;
Semaphorin III; Sema III

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE

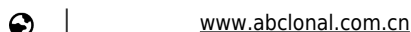
Calculated MW	Observed MW
87.7 kDa	60-70 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from 0.22µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Centrifuge the tube before opening.
Reconstituting to a concentration more than 100 µg/ml is recommended.
Dissolve the lyophilized protein in distilled water.

 | 400-999-6126



The secreted protein **Sema3A** (collapsin-1) was the first identified vertebrate semaphorin. **Sema3A** acts primarily as a repulsive axon guidance cue, and can cause a dramatic collapse of the growth cone lamellipodium. **Neuropilin-1 (NP1)** and members of the class A plexins (**PlexA**) form a **Sema3A** receptor complex, with **NP1** serving as a high-affinity ligand binding partner, and **PlexA** transducing the signal into the cell via its large intracellular domain.

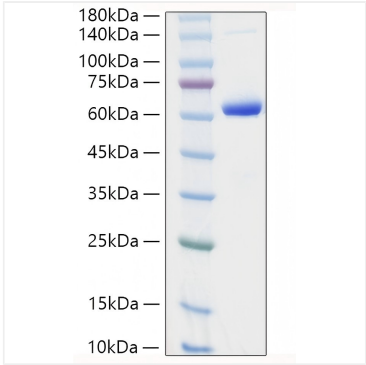
Recombinant Human Semaphorin-3A/SEMA3A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn21-Val771) of Human Semaphorin-3A/SEMA3A (Accession #NP_006071.1) fused with His tag at the N-Terminus.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human
Semaphorin-3A/SEMA3A Protein on Bis-Tris
PAGE under reduced condition.