

# Recombinant Human Semaphorin-3A/SEMA3A Protein

Catalog No.: RP03509 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 10371 014563

**Tags** N-His

Synonyms

SEMA3A; SEMAD

Semaphorin-3A; Semaphorin III; Sema III

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE.

Calculated MW Observed MW

87.7 kDa 60-70 kDa

#### **Endotoxin**

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

## **Formulation**

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

#### Reconstitution

Centrifuge the tube before opening. Reconstituting to a concentration more than  $100~\mu g/ml$  is recommended. Dissolve the lyophilized protein in distilled water.

## Contact

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## **Background**

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.

## **Basic Information**

### **Description**

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.

## **Bio-Activity**

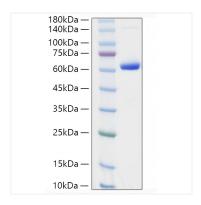
#### Storage

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.

## **Validation Data**



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