### **Human SEMA4B Protein**

#### Cat. No. SEM-HM14B



Description		
Source	Recombinant Human SEMA4B Protein is expressed from HEK293 with His tag at the C-Terminus.	
	It contains Leu44-Glu717.	
Accession	Q9NPR2	
Molecular Weight	The protein has a predicted MW of 75.8 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.	
Endotoxin	Less than 1EU per μg by the LAL method.	
Purity	> 95% as determined by Tris-Bis PAGE	
	> 95% as determined by HPLC	
Formulation and Storage		

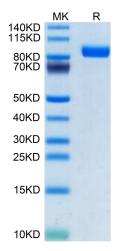
Formulation and Storage		
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.	
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.	
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.	

# **Background**

Semaphorin 4B (SEMA4B) inhibits the invasion of non-small cell lung cancer (NSCLC) through PI3K-dependent suppression of MMP9 activation. SEMA4B may induce FoxO1 nuclear retention through suppressing PI3K/Akt signaling pathway, which subsequently inhibited cell growth through the direct nuclear target of FoxO1, p21. A role of SEMA4B in suppressing NSCLC growth, besides its role in inhibiting cell metastasis, and highlights SEMA4B as a promising therapeutic target for NSCLC.

### **Assay Data**

#### Tris-Bis PAGE



Human SEMA4B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

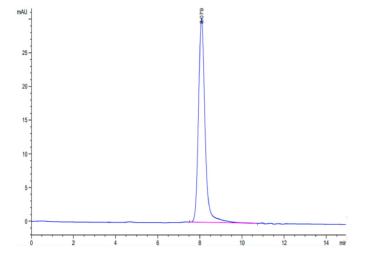
**SEC-HPLC** 

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# **Assay Data**



The purity of Human SEMA4B is greater than 95% as determined by SEC-HPLC.