# Human SEMA4B Protein

**Cat. No.** SEM-HM14B

## Description

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|---|---|
| **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 Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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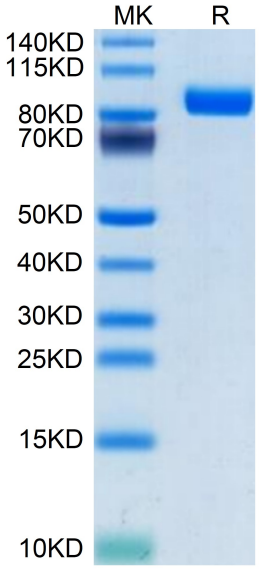
|---|---|
| **Formulation** | Supplied as 0.22μm filtered solution in PBS (pH 7.4). |
| **Storage** | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

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

**Bis-Tris PAGE**




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

**SEC-HPLC**

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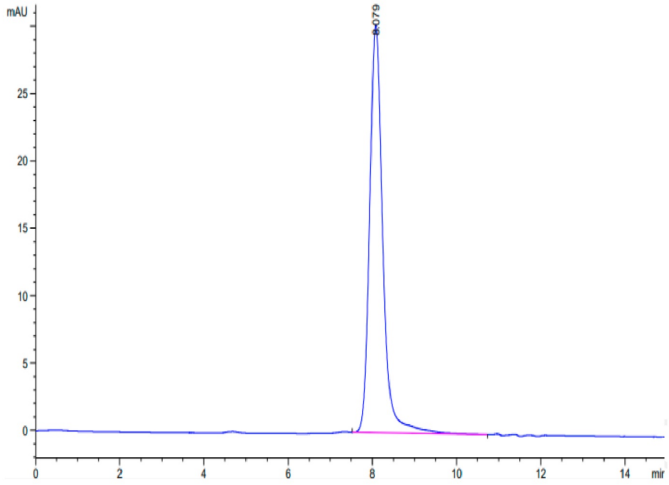
## Assay Data




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