

## Semaphorin-4D/SEMA4D Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74562
Synonyms:	SEMA4D; Semaphorin-4D; M-Sema G; Semaphorin-C-like 2; Sema J; CD100; Semacl2
Species:	Rat
Source:	HEK293
Accession:	NP_001164034 (M1-M712)
Gene ID:	306790
Molecular Weight:	Approximately 118 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Semaphorin-4D (SEMA4D) is predicted to possess identical protein binding activity, signaling receptor binding activity, and transmembrane signaling receptor activity. Its involvement in various processes, including negative regulation of osteoblast differentiation, regulation of neuron projection development, and regulation of phosphate metabolic processes, underscores its diverse functions. SEMA4D is anticipated to act upstream of or within the positive regulation of axonogenesis, suggesting a role in neuronal development. The predicted activity in the extracellular space and its status as an integral component of the plasma membrane further emphasize its potential significance in intercellular communication. With biased expression observed in tissues such as the spleen, thymus, and nine other tissues, SEMA4D's intricate involvement in cellular processes and its potential impact on tissue-specific functions become areas of interest for further exploration.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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