

Semaphorin-7A/SEMA7A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78035
Synonyms:	Semaphorin-7A; Semaphorin-K1; Semaphorin-L; Sema L; CD108; CD108MGC126696; CDw108; H-SEMA-K1; H-Sema-L; JMH; MGC126692; Sema7A; SEMAK1; SEMAL
Species:	Mouse
Source:	HEK293
Accession:	Q9QUR8 (Q45-A646)
Gene ID:	20361
Molecular Weight:	70-80 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The Semaphorin-7A/SEMA7A protein plays a crucial role in integrin-mediated signaling, contributing to the regulation of cell migration and immune responses. It facilitates the formation of focal adhesion complexes and activates the protein kinase PTK2/FAK1, leading to the subsequent phosphorylation of MAPK1 and MAPK3. Moreover, it enhances the production of pro-inflammatory cytokines by monocytes and macrophages. This protein also plays a significant role in modulating inflammation and T-cell-mediated immune responses. Additionally, it promotes axon growth in the embryonic olfactory bulb and aids in the attachment, spreading, and dendrite outgrowth in melanocytes. It interacts with PLXNC1 and the integrins ITGA1 and ITGB1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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