

Semaphorin-3A/SEMA3A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78350
Synonyms:	Semaphorin-3A; Semaphorin III; Sema III; Semaphorin-D; Sema D; coll-1; collapsin 1; Hsema-I; Hsema-III; MGC133243; SEMA1, Sema3A; SEMAD; SEMAIII; SEMAL; semaphorin L
Species:	Mouse
Source:	HEK293
Accession:	O08665 (Y21-V772)
Gene ID:	20346
Molecular Weight:	Approximately 86.6 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 100 mM L-Arginine, 100 mM glutamic acid, pH 8.5. Normally 8% trehalose is added as protectant 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 ₂ 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	The Semaphorin-3A/SEMA3A protein plays a crucial role in guiding growth cones. It is believed to participate in patterning sensory projections by selectively repelling axons that typically terminate dorsally. SEMA3A is also involved in the development of the olfactory system and contributes to neuronal control of puberty. Additionally, it interacts with PXND1, although the exact nature of this interaction is not specified.
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Caution: Product has not been fully validated for medical applications. For research use only.

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