

Semaphorin-4C/SEMA4C Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P71285
Synonyms:	Semaphorin-4C; Semaphorin I; S4c; Semacl1; Semai; Sema I; Semaphorin-C-like 1; M-Sema F; Sema4c
Species:	Mouse
Source:	HEK293
Accession:	Q64151 (A21-G664)
Gene ID:	20353
Molecular Weight:	115-125 kDa

PROPERTIES

AA Sequence

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A E M W W N L V P R   K T V S S G E L V T   V V R R F S Q T G I   Q D F L T L T L T E
H S G L L Y V G A R   E A L F A F S V E A   L E L Q G A I S W E   A P A E K K I E C T
Q K G K S N Q T E C   F N F I R F L Q P Y   N S S H L Y V C G T   Y A F Q P K C T Y I
N M L T F T L D R A   E F E D G K G K C P   Y D P A K G H T G L   L V D G E L Y S A T
L N N F L G T E P V   I L R Y M G T H H S   I K T E Y L A F W L   N E P H F V G S A F
V P E S V G S F T G   D D D K I Y F F F S   E R A V E Y D C Y S   E Q V V A R V A R V
C K G D M G G A R T   L Q K K W T T F L K   A R L V C S A P D W   K V Y F N Q L K A V
H T L R G A S W H N   T T F F G V F Q A R   W G D M D L S A V C   E Y Q L E Q I Q Q V
F E G P Y K E Y S E   Q A Q K W A R Y T D   P V P S P R P G S C   I N N W H R D N G Y
T S S L E L P D N T   L N F I K K H P L M   E D Q V K P R L G R   P L L V K K N T N F
T H V V A D R V P G   L D G A T Y T V L F   I G T G D G W L L K   A V S L G P W I H M
V E E L Q V F D Q E   P V E S L V L S Q S   K K V L F A G S R S   Q L V Q L S L A D C
T K Y R F C V D C V   L A R D P Y C A W N   V N T S R C V A T T   S G R S G S F L V Q
H V A N L D T S K M   C N Q Y G I K K V R   S I P K N I T V V S   G T D L V L P C H L
S S N L A H A H W T   F G S Q D L P A E Q   P G S F L Y D T G L   Q A L V V M A A Q S
R H S G P Y R C Y S   E E Q G T R L A A E   S Y L V A V V A G S   S V T L E A R A P L
E N L G

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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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 ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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-4C (SEMA4C) acts as a cell surface receptor for PLXNB2, serving a crucial role in cell-cell signaling. The binding of SEMA4C to PLXNB2 initiates downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. This protein is essential for normal brain development, axon guidance, and cell migration. Additionally, SEMA4C is a likely signaling receptor that may contribute to myogenic differentiation through the activation of the stress-activated MAPK cascade. Notably, it engages in interactions with GIPC via its PDZ-binding motif and PDZ domain, as well as with NCDN and DLG4. The multifaceted functions of SEMA4C underscore its significance in coordinating various cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA