

Semaphorin-3F/SEMA3F Protein, Human (HEK293, His)

Cat. No.:	HY-P71674
Synonyms:	sema domain immunoglobulin domain Ig short basic domain secreted 3F; sema domain immunoglobulin domain Ig short basic domain secreted semaphorin 3F; Sema III/F; Sema IV; SEMA-IV; SEMA3F; SEMA4; SemalIII/F; SemalIV; SEMAK; Semaphorin IV; Semaphorin-3F; Semaphorin3F; SemaphorinIV
Species:	Human
Source:	HEK293
Accession:	Q13275 (S19-T785)
Gene ID:	6405
Molecular Weight:	Approximately 90.5 kDa

PROPERTIES

AA Sequence

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

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, 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.

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-3F/SEMA3F protein is suggested to potentially play a role in cell motility and cell adhesion, indicating its involvement in fundamental cellular processes related to cell movement and interaction. The precise mechanisms and contexts in which SEMA3F operates in regulating cell motility and adhesion remain areas of interest, highlighting its potential significance in cellular dynamics. The versatility of SEMA3F in these processes suggests a multifaceted role in influencing cellular behaviors, emphasizing the need for further exploration to elucidate its specific functions and molecular mechanisms.

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

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