

## Semaphorin-3A/SEMA3A Protein, Rat (His)

<b>Cat. No.:</b>	HY-P71564
<b>Synonyms:</b>	Sema3a; Semaphorin-3A; Semaphorin III; Sema III
<b>Species:</b>	Rat
<b>Source:</b>	E. coli
<b>Accession:</b>	Q63548 (21N-772V)
<b>Gene ID:</b>	29751
<b>Molecular Weight:</b>	Approximately 90.6 kDa

### PROPERTIES

#### AA Sequence

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NYANGKNNVP   RLKLSYKEML   ESNNVITFNG   LANSSSSYHTF
LLDEERSRLY   VGAKDHIFSF   NLVNIKDFQK   IVWPVSYTRR
DECKWAGKDI   LKECANFIKV   LKAYNQTHLY   ACGTGAFHPI
CTYIEVGHHP   EDNIFKLQDS   HFENGRGKSP   YDPKLLTASL
LIDGELYSGT   AADFMGRDFA   IFRTLGHHHP   IRTEQHDSRW
LNDPRFISAH   LIPESDNPED   DKVYFFFREN   AIDGEHSGKA
THARIGQICK   NDFGGHRSLV   NKWTTFLKAR   LICSVPGPNG
IDTHFDELQD   VFLMNSKDPK   NPIVYGVFTT   SSNIFKGS AV
CMYSMSDVR   VFLGPYAHRD   GPNYQWVPYQ   GRVPYPRPGT
CPSKTFGGFD   STKDLPPDDVI   TFARSHPAMY   NPVFPINNR P
IMIKTDVNYQ   FTQIVVDRVD   AEDGQYDVMF   IGTDVGTVLK
VVSVPKETWH   DLEEVLL EEM   TVFREPTTIS   AMELSTKQQQ
LYIGSTAGVA   QLPLHRCDIY   GKACAECCLA   RDPYCAWDGS
SCSRYFPTAK   RRTRRQDIRN   GDPLTHCSDL   QHHDNHHGHS
LEERIIYGVE   NSSTFLE CSP   KSQRALVYWQ   FQRRNEDRKE
EIRVGDHIIR   TEQGLLLRSL   QKKDSGNLYC   HAVEHGFMQT
LLKVTLEVID   TEHLEELLHK   DDDGDGSKTK   EMSSSMTPSQ
KVWYRDFMQL   INHPNLNTMD   EFCEQVWKR D   RKQRRQRPGH
SQGSSNKWKH   MQESKKGRNR   RTHEFERAPR   SV
  
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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 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-3A/SEMA3A protein is potentially crucial for directing the growth of axons towards their intended targets by creating a molecular boundary that provides instructions for the formation of specific nerve tracts. It binds to neuropilin and is implicated in the development of the olfactory system and the neuronal regulation of puberty. Additionally, SEMA3A interacts with PLXND1, further emphasizing its significance in axon guidance and neural development.

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

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