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Recombinant human Semaphorin 3C(R551A/R552A/R611A/R612A) protein

Catalog Number: ATGP4059

PRODUCT INFORMATION

Expression system

HEK293

Domain

21-738aa

UniProt No.

099985

NCBI Accession No.

NP 006370.1

Alternative Names

Semaphorin 3C ,Semaphorin-3C, Semaphorin-3C isoform2, SEMA3C, Semaphorin-E, SEMAE, Sema E, SemE, SEME, Semaphorin E

PRODUCT SPECIFICATION

Molecular Weight

107.2kDa (951aa)

Concentration

1mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hlgG-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Semaphorin 3C, also known as SemaE, is a member of the semaphorin family 3 that are grouped into eight major classes based on structure and phylogenetic tree analyses. It is expressed in all somitic motor neurons, in lung buds, and in cardiac neural crest cells during development. The functions of Semaphorin 3C are mediated



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primarily through binding to the Plexin-D1 and Neuropilin 1 or Neuropilin 2 coreceptor complex. Semaphorins are usually cues to deflect axons from inappropriate regions, especially important in the neural system development. Also, Semaphorin 3C activates integrins in certain cells, so in addition to its repulsive activities, it sometimes acts as a chemoattractant. Class 3 have an important function after traumatic central nervous system injuries, such as spinal cord injury. It regulate neuronal and non-neuronal cells associated with the traumatic injury due to their presence in the scar tissue. Recombinant human Semaphorin 3C, fused to hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

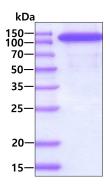
GSSQPQARVY LTFDELRETK TSEYFSLSHH PLDYRILLMD EDQDRIYVGS KDHILSLNIN NISQEALSVF WPASTIKVEE CKMAGKDPTH GCGNFVRVIQ TFNRTHLYVC GSGAFSPVCT YLNRGRRSED QVFMIDSKCE SGKGRCSFNP NVNTVSVMIN EELFSGMYID FMGTDAAIFR SLTKRNAVRT DQHNSKWLSE PMFVDAHVIP DGTDPNDAKV YFFFKEKLTD NNRSTKQIHS MIARICPNDT GGLRSLVNKW TTFLKARLVC SVTDEDGPET HFDELEDVFL LETDNPRTTL VYGIFTTSSS VFKGSAVCVY HLSDIQTVFN GPFAHKEGPN HQLISYQGRI PYPRPGTCPG GAFTPNMRTT KEFPDDVVTF IRNHPLMYNS IYPIHKRPLI VRIGTDYKYT KIAVDRVNAA DGRYHVLFLG TDRGTVQKVV VLPTNNSVSG ELILEELEVF KNHAPITTMK ISSKKQQLYV SSNEGVSQVS LHRCHIYGTA CADCCLARDP YCAWDGHSCS RFYPTGKRRS AAQDVRHGNP LTQCRGFNLK AYRNAAEIVQ YGVKNNTTFL ECAPKSPQAS IKWLLQKDKD AAKEVKLNER IIATSQGLLI RSVQGSDQGL YHCIATENSF KQTIAKINFK VLDSEMVAVV TDKWSPWTWA SSVRALPFHP KDIMGAFSHS EMQMINQYCK DTRQQHQQGD ESQKMRGDYG KLKALINS<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K>

General References

Adams, R. H. et al. (1997) EMBO J. 16:6077-6086. Gitler, A. D. et al. (2004) Dev. Cell 7:107-116. Bagnard, D. et al. (1998) Development 125:5043-5053.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

