9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SEMA7A Human

Semaphorin 7A Human Recombinant
RCP2023

Product Overview

Name	SEMA7A Human
Description	
Semaphorin 7A Human Recombinant	
Accession (Primary)	O75326
Synonyms	
Semaphorin-7A, CDw108, JMH blood group antigen, John-Milton-Hargen human blood group Ag, Semaphorin-K1, Sema K1, Semaphorin-L, Sema L, CD108.	
Introduction	
SEMA7A (semaphorin-7A isoform 1), is a membrane-bound semaphorin which is linked with cell surfaces via a glycosylphosphatidylinositol (GPI) linkage. SEMA7A encourages formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK3 & MAPK1. SEMA7A takes a vital part in integrin-mediated signaling and functions in regulating cell migration as well as immune responses. In addition, SEMA7A promotes the production of proinflammatory cytokines by macrophages & monocytes.	
Source	
Sf9, Insect cells.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
SEMA7A protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
ADP QGHLRSG PRIFAVWKGH VGQDRVDFGQ TEPHTVLFHE PGSSSVWVGG RGKVYLFDFP EGKNASVRTV NIGSTKGSCL DKRDCENYIT LLERRSEGLL ACGTNARHPS CWNLVNGTVV PLGEMRGYAP FSPDENSLVL FEGDEVYSTI RKQEYNGKIP RFRRIRGESE LYTSDTVMQN PQFIKATIVH QDQAYDDKIY YFFREDNPDK	

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NPEAPLNVSR VAQLCRGDQG GESSLSVSKW NTFLKAMLVC SDAATNKNFN RLQDVFLLPD PSGQWRDTRV YGVFSNPWNY SAVCVYSLGD IDKVFRTSSL KGYHSSLPNP RPGKCLPDQQ PIPTETFQVA DRHPEVAQRV EPMGPLKTPL FHSKYHYQKV AVHRMQASHG ETFHVLYLTT DRGTIHKVVE PGEQEHSFAF NIMEIQPFRR AAAIQTMSLD AERRKLYVSS QWEVSQVPLD LCEVYGGGCH GCLMSRDPYC GWDQGRCISI YSSERSVLQS INPAEPHKEC PNPKPDKAPL QKVSLAPNSR YYLSCPMESR HATYSWRHKE NVEQSCEPGH QSPNCILFIE NLTAQQYGHY FCEAQEGSYF REAQHWQLLP EDGIMAEHLL GHACALA LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH.

Precautions

SEMA7A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O75326)