

Recombinant Full Length Human SEMA7A Protein, C-Flag-tagged

Cat. No. SEMA7A-110HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SEMA7A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the semaphorin family of proteins. The encoded preproprotein is proteolytically processed to generate the mature glycosylphosphatidylinositol (GPI)-anchored membrane glycoprotein. The encoded protein is found on activated lymphocytes and erythrocytes and may be involved in immunomodulatory and neuronal processes. The encoded protein carries the John Milton Hagen (JMH) blood group antigens. Mutations in this gene may be associated with reduced bone mineral density (BMD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	70.3 kDa
AA Sequence	MTPPPPGRAAPSAPRARVPGPPARLGLPLRLRLLLLLWAAAASAQGHLSRSGPRIFAV WKGHVGVQDRVDFG QTEPHTVLFHEPGSSSVWVGGRGKVYLFDFPEGKNASVRTV NIGSTKGSCLDKRDCENYITLLERRSEGL LACGTNARHPSCWNLVNGTVVPLGEMR

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GYAPFSPDENSLVLFEGDEVYSTIRKQEYNGKIPRFRIRGES ELYTSDTVMQNPQF
 IKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRAQLCRGDQGGESSLSVSK
 WNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGQWRDTRVYGVFSNPWNYSAVC
 VYSLGDIDKVFRTSS LKGYHSSLPNPRPGKCLPDQQPIPTETFQVADRHPEVAQRV
 EPMGPLKTPLFHSKYHYQKVAVHRMQASH GETFHVLYLTDRGTIHKVVEPGEQE
 HSFAFNIMEIQPFRRAAAIQTMSLDAERRKLYVSSQWEVSQVPL DLCEVYGGGCHG
 CLMSRDPYCGWDQGRCSISYSSERSVLQSINPAEPHKECPNPKPKAPLQKVSLAP
 NS RYYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFIENLTAQQYGHYFC
 EAQEGSYFREAQHWQLL
 PEDGIMAEHLLGHACALAASLWLGVLPTLTGLLVHTRTRPLEQKLISEEDLAANDILD
 YKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Axon guidance
Full Length	Full L.

GENE INFORMATION

Gene Name **SEMA7A semaphorin 7A (John Milton Hagen blood group) [Homo sapiens (human)]**

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Official Symbol	SEMA7A
Synonyms	JMH; CD108; SEMAL; CDw108; PFIC11; SEMAK1; H-Sema-L; H-SEMA-K1
Gene ID	8482
mRNA Refseq	NM_003612.5
Protein Refseq	NP_003603.1
MIM	607961
UniProt ID	O75326



Coomassie blue staining of purified SEMA7A protein.