Recombinant Human SEMA7A protein, His & T7-tagged

Cat. No. SEMA7A-6973H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMA7A aa. (Tyr242~Arg507 (Accession # O75326)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Tyr242~Arg507
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.0kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

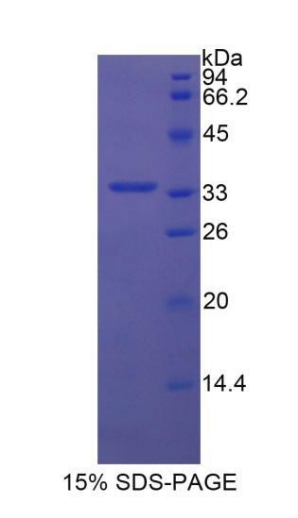
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Purity	>90%
Characteristic	The isoelectric point is 8.2.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	SEMA7A semaphorin 7A (John Milton Hagen blood group) [Homo sapiens (human)]
Official Symbol	SEMA7A
Synonyms	SEMA7A; semaphorin 7A (John Milton Hagen blood group); JMH; CD108; SEMAL; CDw108; SEMAK1; H-Sema-L; H-SEMA-K1; semaphorin-7A; JMH blood group antigen; John Milton Hagen blood group H-Sema K1; john-Milton-Hargen human blood group Ag; sema K1; sema L; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (JMH blood group); sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, 7A; semaphorin 7A, GPI

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	membrane anchor (John Milton Hagen blood group); semaphorin-K1; semaphorin-L
Gene ID	8482
mRNA Refseq	NM_001146029.2
Protein Refseq	NP_001139501.1
UniProt ID	O75326
SDS-PAGE	 15% SDS-PAGE

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