Recombinant Human SEMA3A, His-Flag-tagged

Cat. No. SEMA3A-854H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Semaphorin 3A(Q14563)(Lys26-Phe546) is produced by Mammalian expression system and is expressed with a 6His-Flag tag at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	Lys26-Phe546
Description	Semaphorin-3A is a secreted protein which belongs to the semaphorin family. Semaphorins are a family of secreted and cell-bound signaling molecules defined by the presence of a common 500 aa Sema domain.This protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines.
Form	Lyophilized from a 0.2 μm filtered solution of PBS, 5% Trehalose, pH 7.4.
Molecular Mass	70-75kDa, reducing conditions
Endotoxin	Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.

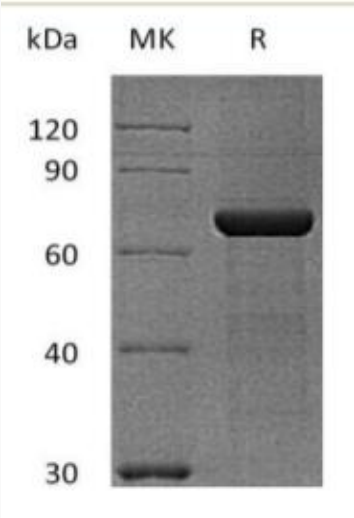
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Storage	Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C for 2-7 days.Aliquots of reconstituted samples are stable at <-20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	SEMA3A semaphorin 3A [Homo sapiens (human)]
Official Symbol	SEMA3A
Synonyms	HH16; SemD; COLL1; SEMA1; SEMAD; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III
Gene ID	10371
mRNA Refseq	NM_006080.3
Protein Refseq	NP_006071.1
MIM	603961
UniProt ID	Q14563

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