

# Product Data Sheet

## Recombinant Human Semaphorin 3A Protein

Catalog #	Source	Reactivity	Applications
CRP2812	Human cells	Human	E, WB, SDS-PAGE, MS
Description	Recombinant Human Semaphorin 3A Protein is produced by mammalian expression system and the target gene encoding Lys26-Phe546 is expressed with a 6His-Flag tag at the N-terminus.		
Form	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.		
Gene Symbol	SEMA3A		
Alternative Names	SEMA3; Semaphorin-3A; Semaphorin III; Sema III		
Entrez Gene	10371 (Human)		
SwissProt	Q14563 (Human)		
Purity	Greater than 95% as determined by reducing SDS-PAGE.		
Chemical Structure	GSGSHHHHHH DYKDDDDKKN NVPRLKLSYK EMLESNNVIT ENGLANSSSY HTFLLDEERS RLYVGAKDHI FSFDLVNIKD FQKIVWPVSY TRRDECKWAG KDILKECANF IKVLKAYNQT HLYACGTGAF HPICTYIEIG HHPEDNIFKL ENSHFENGRG KSPYDPKLLT ASLLIDGELY SGTAADFMGR DFAIFRTLGH HHPIRTEQHD SRWLNDPKFI SAHLISESDN PEDDKVYFFF RENAIDGEHS GKATHARIGQ ICKNDFGGHR SLVNKWTTFL KARLICSVPG PNGIDTHFDE LQDVFLMNFK DPKNPVVYGV FTTSSNIFKG SAVCMYSMSD VRRVFLGPYA HRDGPNYQWV PYQGRVPYPR PGTCPSKTFG GFDSTKDLPD DVITFARSHP AMYNPVFPMN NRPIVIKTDV NYQFTQIVVD RVDAEDGQYD VMFIGTDVGT VLKVVSIKPE TWYDLEEVLL EEMTVFREPT AISAMELSTK QQQLYIGSTA GVAQLPLHRC DIYGKACAEC CLARDPYCAW DGSACSRYP		
Quality Control	Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.		
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not		
Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference			
Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish			

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recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### Storage/Stability

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days.

Aliquots of reconstituted samples are stable at -20°C for 3 months.

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