



Recombinant Protein Technical Manual

Recombinant Human Semaphorin 3A/SEMA3A Protein (His & Flag Tag) RPES5094

Product Data:

Product SKU: RPES5094

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q14563

Protein Information:

Molecular Mass: 61.3 kDa

AP Molecular Mass: 70-75 kDa

Tag: N-His-Flag

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Semaphorin III; SEMA3A; SEMAD; Hsema-I; SEMA1; SemD; Semad; coll ; Hsema-III; Sema III

Immunogen Information:

Sequence: Lys26-Phe546

Background:

emaphorin-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.