

SECTM1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	SECTM1;K-12
Protein Construction:	Gln29-Gly145
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH17716
Molecular Weight:	39.4 kDa (predicted). Due to glycosylation, the protein migrates to 47-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CD7, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human SECTM1, hFc Tag with the EC50 of 4.2 ng/mL determined by ELISA (QC Test). Human SECTM1, hFc Tag captured on CM5 Chip via Protein A can bind Mouse CD7, His Tag with an affinity constant of 4.46 µM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

SECTM1 is a T/NK cell "co-stimulatory" molecule that is expressed in the peripheral blood by neutrophils and monocytes. Human monocytic cells also displayed a pronounced negative regulation of SECTM1 mRNA expression by LPS, while at the protein level SECTM1 expression was also shown to be regulated by IFN and LPS. This tight

regulation of SECTM1 gene expression and rapid upregulation highlights its relevance in the innate immune response.

Reference

Huyton T, Göttmann W, Bade-Döding C, Paine A, Blasczyk R. The T/NK cell co-stimulatory molecule SECTM1 is an IFN "early response gene" that is negatively regulated by LPS in human monocytic cells. *Biochim Biophys Acta*. 2011 Dec;1810(12):1294-30doi: 10.1016/j.bbagen.2011.06.020. Epub 2011 Jul PMID: 21749909.

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