

Recombinant Human SIGLEC12 protein, His-tagged

Cat. No. SIGLEC12-6713H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIGLEC12 aa. (Leu317~Pro512 (Accession # Q96PQ1)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu317~Pro512
Description	Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 22.1kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein 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 PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SIGLEC12 sialic acid binding Ig like lectin 12 (gene/pseudogene) [Homo sapiens (human)]
Official Symbol	SIGLEC12

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Synonyms	S2V; SLG; SIGLECL1; Siglec-XII; SIGLEC-like 1; sialic acid binding Ig-like lectin 12; sialic acid-binding Ig-like lectin-like 1; sialic acid-binding Ig-like lectin 12
Gene ID	89858
mRNA Refseq	NM_033329.2
Protein Refseq	NP_201586.1
UniProt ID	Q96PQ1
SDS-PAGE	