

## Siglec-8 Protein, Human (HEK293, His)

Cat. No.:	HY-P71313
Synonyms:	Siglec8; Siglec-8; SAF2; SAF2SAF-2; SAF-2; CD329 antigen; CDw329
Species:	Human
Source:	HEK293
Accession:	Q9P0M4/NP_037410.1 (M17-A363)
Gene ID:	27181
Molecular Weight:	40-60 kDa

### PROPERTIES

#### AA Sequence

MEGDRQYGDG	YLLQVQELVT	VQEGLCVHVP	CSFSYPQDGW
TSDSPVHGYW	FRAGDRPYQD	APVATNPNDR	EVQAETQGRF
QLLGDIWSND	CSLSIRDARK	RDKGSYFFRL	ERGS MKWSYK
SQ LNYKTKQL	SVFVTALTHR	PDILILGTLE	SGHSRNLTCS
VPWACKQGTP	PMISWIGASV	SSPGPTTARS	SVLTLTPKPQ
DHGTSLTCQV	TLPGTGVT TT	STVRLDVSYP	PWNLTMTVFQ
GDATASTALG	NGSSLSVLEG	QSLRLVCAVN	SNPPARLSWT
RGSLTLCP SR	SSNPGLLELP	RHVVRDEGEF	TCRAQNAQGS
QHISLSLSLQ	NEG TGTSRPV	SQVTLAA	

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

Siglec-8 protein, identified as a putative adhesion molecule, serves as a mediator for sialic-acid dependent binding to red blood cells. It exhibits a preference for binding to alpha-2,3-linked sialic acid and also interacts with alpha-2,6-linked sialic acid. Notably, the sialic acid recognition site of Siglec-8 may be concealed due to cis interactions with sialic acids present on

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the same cell surface. Furthermore, it has the ability to simultaneously recognize epitopes featuring a terminal N-acetylneuraminic acid (sialic acid) and an underlying 6-O-sulfated galactose, with a specific affinity for Gal-6-sulfated sialyl-Lewis X glycan epitopes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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