

Siglec-5 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P70960
Synonyms:	Sialic acid-binding Ig-like lectin 5; Siglec-5
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A0B4J1D1 (E17-G435)
Gene ID:	/
Molecular Weight:	Approximately 90.0 kDa

PROPERTIES

AA Sequence

E E P G Y E L Q V Q	K S V T V Q E G L C	V L V P C S F S Y P	W N S W Y S P S P L
Y V Y W F R D G E S	Q Y Y A E A V A T N	N P D R R V K P E T	Q G R F R L L G D V
R N K N C S L S I G	D A R M G D T G N Y	Y F R V E R G R N V	K Y N Y V Q N K L N
L E V T A L T E K P	D V R F L E P L E S	G R L T R L S C S L	P G S C E V G R P L
T F S W T G D V L S	P L D P E T T G S S	E L T L T P R P E D	H G T N L T C H V K
H Q G A Q V T T E R	T V Q L N V S Y A P	Q N I T I F R N G T	A L E I L Q N T S T
L L V L E G E A L R	L L C E A P S N P P	A H L S W F Q A S S	A P N T T P I A N T
G I L E L P R V E F	T K E G V F T C R A	Q H P L G S L H I F	L N L S V Y S L P Q
L L G P S C S W E A	E S L H C S C S F R	A W P A P S L C W W	L G E K P L E G N S
S Q G S F K V N S S	S A G P W A N S S L	I L H G G L T S V L	K V S C K G W N T Y
G S Q S G S V V L L	Q G R L N L R T G		

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

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 ddH₂O. 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 Sialic acid-binding immunoglobulin-like lectin 5 (Siglec-5) is a member of the sialic acid-binding immunoglobulin-like lectin

(Siglec) family. Siglec-5 is a member of the CD33-related subset of Siglecs and is expressed on myeloid cells of the hemopoietic system. Siglec-5 inhibits the response of innate immune cells, such as monocytes and neutrophils against pathogens. Overexpression of Siglec-5 inhibits the activity of T cell receptor (TCR)-induced transcription factors. In addition, binding of Siglec-5 to the GBS β -protein reduces primary T cell activation and leads to decreased production of cytokines and surface antigens. A soluble form of Siglec-5 enhances cytokine production and cytotoxic granule release by cancer antigen-specific T cells. Siglec-5 is an inhibitory receptor with the potential to mediate SHP-1 and/or SHP-2-dependent signaling in the absence of tyrosine phosphorylation. Plasma Siglec-5 can be used as a diagnostic marker for critical Limb Ischemia and fulminant myocarditis^{[1][2][3][4]}.

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

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