

Siglec-9 Protein, Human (HEK293, His)

Cat. No.:	HY-P70739
Synonyms:	Sialic acid-binding Ig-like lectin 9; Siglec-9; CDw329; Protein FOAP-9; SIGLEC9
Species:	Human
Source:	HEK293
Accession:	AAH35365.2 (Q18-G348)
Gene ID:	27180
Molecular Weight:	55-90 kDa

PROPERTIES

AA Sequence

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

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, 2 mM EDTA, 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 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 (Siglec-9) is a member of the Siglec cell surface immunoglobulin family. Siglec-9 is highly expressed on human neutrophils and monocytes and low on natural killer cells, and sub-populations of T and B lymphocytes. Ligation of Siglec-9 by chemical compounds or synthetic ligands induced apoptosis and autophagic-like

cell death in human neutrophils. Siglec-9 binds to sialic acid and transduces apoptotic and nonapoptotic death signals to neutrophils. Siglec-9 is an immune-checkpoint molecule on macrophages that can be targeted to enhance anti-PD-1/PD-L1 therapeutic efficacy for GBM treatment. Pro-tumorigenic activity can be suppressed by blocking Siglec-9, which unleashes antitumor functions and induces robust tumor-eliminating activity. Targeting Siglec-9 could be beneficial for the treatment of COPD, asthma, fibrosis, and related chronic inflammatory lung diseases^{[1][2][3]}.

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

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