Siglec-3/CD33 Protein, Human (HEK293, Fc-His)

Cat. No.:	HY-P72472
Synonyms:	Myeloid Cell Surface Antigen CD33; Sialic Acid-Binding Ig-Like Lectin 3; Siglec-3; gp67; CD33; SIGLEC3
Species:	Human
Source:	HEK293
Accession:	AAH28152.1 (D18-H259)
Gene ID:	945
Molecular Weight:	Approximately 80 kDa

PROPERTIES

AA Sequence	D P N F W L Q V Q E S V T V Q E G L C V L V P C T F F H P I P Y Y D K N S P V H G Y W F R E G A I I S R D S P V A T N K L D Q E V Q E E T Q G R F R L L G D P S R N N C S L S I V D A R R R D N G S Y F F R M E R G S T K Y S Y K S P Q L S V H V T D L T H R P K I L I P G T L E P G H S K N L T C S V S W A C E Q G T P P I F S W L S A A P T S L G P R T T H S S V L I I T P R P Q D H G T N L T C Q V K F A G A G V T T E R T I Q L N V T Y V P Q N P T T G I F P G D G S G K Q E T R A G V V H
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 2 mM EDTA, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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-3/CD33, a sialic-acid-binding immunoglobulin-like lectin, plays a crucial role in mediating cell-cell interactions and maintaining immune cells in a resting state. It exhibits a preference for binding sialic acid on the short O-linked glycans of specific mucins. The protein forms homodimers through disulfide linkages and interacts with signaling molecules such as PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation. Additionally, CD33 engages with C1QA via its C-terminus, leading to the activation of CD33 inhibitory motifs.

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

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