Siglec-3/CD33 Protein, Mouse (G236R, HEK293, His)

Cat. No.:	HY-P72473
Synonyms:	Myeloid Cell Surface Antigen CD33; Sialic Acid-Binding Ig-Like Lectin 3; Siglec-3; gp67; CD33; SIGLEC3
Species:	Mouse
Source:	HEK293
Accession:	Q63994 (D18-E240)
Gene ID:	12489
Molecular Weight:	30-45 kDa

PROPERTIES

AA Sequence	D L E F Q L V A P E S V T V E E G L C V H V P C S V F Y P S I K L T L G P V T G S W L R K G V S L H E D S P V A T S D P R Q L V Q K A T Q G R F Q L L G D P Q K H D C S L F I R D A Q K N D T G M Y F F R V V R E P F V R Y S Y K K S Q L S L H V T S L S R T P D I I I P G T L E A G Y P S N L T C S V P W A C E Q G T P P T F S W M S T A L T S L S S R T T D S S V L T F T P Q P Q D H G T K L T C L V T F S G A G V T V E R T I Q L N V T R K S R Q M R E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
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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