

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

Cat. No.:	HY-P77536
Synonyms:	Myeloid Cell Surface Antigen CD33; Siglec-3; gp67; CD33; SIGLEC3
Species:	Human
Source:	HEK293
Accession:	AAH28152 (D18-H259)
Gene ID:	945
Molecular Weight:	Approximately 28.2 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS,pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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