

## MOUSE CD33 PROTEIN, HFC TAG

**Cat.#:** 12139

**Product Name:** Mouse CD33 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** gp67;Siglec-3

**Target:** CD33

**UNIPROT ID:** Q63994

**Description:** Recombinant mouse CD33 protein with C-terminal human Fc tag

**Background:** Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state (By similarity). Preferentially binds sialic acid to the short O-linked glycans of certain mucins (PubMed:12773563).[UniProtKB/Swiss-Prot Function]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 50.8 kDa after removal of the signal peptide. The apparent molecular mass of mCD33-hFc is approximately 55–70 kDa due to glycosylation.

**Molecular Characterization:** Mouse CD33(Asp18-Glu240) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.