

MOUSE CD38 PROTEIN, HIS TAG**Cat.#:** 12129**Product Name:** Mouse CD38 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** ADPRC 1;Cd38-r;Cd38-rs1;l-19**Target:** CD38**UNIPROT ID:** P56528**Description:** Recombinant mouse CD38 protein with C-terminal 6xHis tag

Background: This gene encodes a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Knockout mice deficient for this gene display altered humoral immune responses. In addition, knockout mice exhibit higher locomotor activity and defects in nurturing and social behaviors. [provided by RefSeq, Sep 2015]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 30.6 kDa after removal of the signal peptide. The apparent molecular mass of mCD38-His is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: Mouse CD38(Leu45-Thr304) 6×His tag

Purity: The purity of the protein is greater than 85% 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.

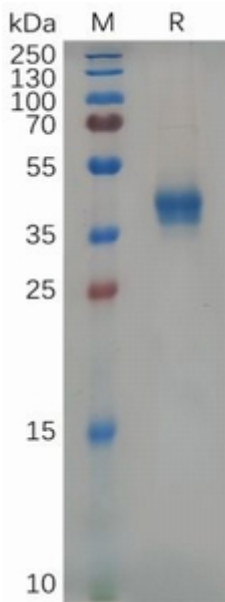


Figure 1. Mouse CD38 Protein, His Tag on SDS-PAGE under reducing condition.