

## HUMAN ITGAM PROTEIN, HFC TAG

**Cat.#:** 11592

**Product Name:** Human ITGAM Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD11B;CR3A;MAC-1;MAC1A;MO1A;SLEB6

**Target:** ITGAM

**UNIPROT ID:** P11215

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

**Background:** This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 145.2 kDa after removal of the signal peptide.

**Molecular Characterization:** ITGAM(Phe17-Asn1104) 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.