

HUMAN MR1 PROTEIN, HFC TAG**Cat.#:** 11764**Product Name:** Human MR1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** HLALS**Target:** MR1**UNIPROT ID:** Q95460**Description:** Recombinant human MR1 protein with C-terminal human Fc tag**Background:** MAIT (mucosal-associated invariant T-cells) lymphocytes represent a small population of T-cells primarily found in the gut. The protein encoded by this gene is an antigen-presenting molecule that presents metabolites of microbial vitamin B to MAITs. This presentation may activate the MAITs to regulate the amounts of specific types of bacteria in the gut. Several transcript variants encoding different isoforms have been found for this gene, and a pseudogene of it has been detected about 36 kbp upstream on the same chromosome. [provided by RefSeq, Jul 2015]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 56.32 kDa after removal of the signal peptide.**Molecular Characterization:** MR1 (R23-Met302) 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.