

## 32-17648: Recombinant Human MDR-1 Protein, hFc Tag

**Uniprot ID :** P08183

**Alternative Name :** ABC20, CD243, CLCS, GP170, MDR1, P-GP, PGY1

### Description

Molecular Characterization: MDR-1(Phe72-Arg113) (Lys213-Thr215) (Thr318-Gln330) (Gly960-Asp973) hFc(Glu99-Ala330)

Molecular weight: The protein has a predicted molecular mass of 34.2 kDa after removal of the signal peptide. The apparent molecular mass of MDR-1-hFc is approximately 25-55 kDa due to glycosylation.

Description: Recombinant Human MDR-1 with C-terminal human Fc tag

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants.

### Product Info

**Amount :** 100 µg / 50 µg

**Content :** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.

**Storage condition :** 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.