

PRODUCT INFORMATION

MDR-1 **Target**

ABC20;CD243;CLCS;GP170;MDR1;P-GP;PGY1 **Synonyms**

Recombinant Human MDR-1 with C-terminal **Description**

human Fc tag

Delivery In Stock **Uniprot ID** P08183 **Expression Host HEK293**

C-Human Fc Tag Tag

Molecular

Storage & Shipping

Background

Purity

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

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 **Molecular Weight** approximately 25-55 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. 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.

The membrane-associated protein encoded by this gene is a member of the superfamily of ATPbinding 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. [provided by RefSeq, Feb 2017]

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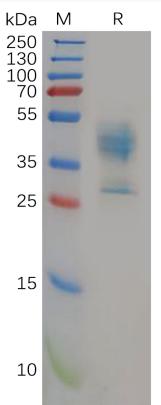


Figure 1. Human MDR-1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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