PRODUCT INFORMATION

Target	MDR-1
Synonyms	ABC20;CD243;CLCS;GP170;MDR1;P-GP;PGY1
Description	Recombinant Human MDR-1(Phe72-Arg113) with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P08183
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	MDR-1(Phe72-Arg113) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 30.9 kDa after removal of the signal peptide. The apparent molecular mass of MDR-1-hFc is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
Background	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. [provided by RefSeq, Feb 2017]
Usage	Research use only
Conjugate	Unconjugated

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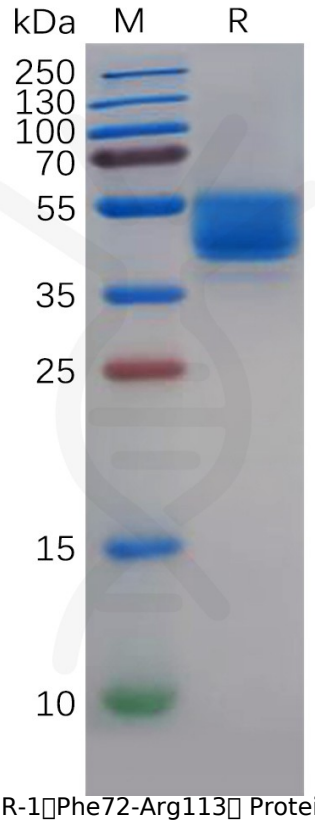


Figure 1. Human MDR-1（Phe72-Arg113） Protein, hFc Tag on SDS-PAGE under reducing condition.

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