

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.