

Human MDR-1 Full-Length Bioactive Membrane Protein

HDFP012



Product Information

Product SKU:

HDFP012

Size:

10µg

Molecular Weight:

The human full length MDR-1 protein has a MW of 141.5 kDa

Expression System:

HEK293

Uniprot:

P08183

Target:

MDR-1

Antibody Information

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.

Description:

Human MDR-1 full length protein-synthetic nanodisc

Protein Family:

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

ABC transporters

Synonyms:

ABCB1; CD243; CLCS; GP170; MDR1; p-170; P-GP; PGY1

Storage:

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.

Usage:

Research use only

Form:

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. Please see Certificate of Analysis for specific instructions.

Contact Details | Dublin, Ireland

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