

Human MDR1 Vesicles, ABC transporter vesicles

Cat. No. MDR1 Vesicles-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MDR1 Vesicles are insect derived purified plasma membranes with inserted MDR1 transport protein (P-glycoprotein, ABCB1). Our Human MDR1 Vesicles can be used to evaluate test compounds and drug interactions with MDR1 in in vitro assays. MDR1 is an ATP-binding cassette (ABC) transporter associated with multidrug resistance, including resistance to anti-cancer drugs.
Species	Human
Source	Insect Cells
Description	Human MDR1 Vesicles are part of a larger group of transporter vesicles known as ABC transporter vesicles. They are prepared from purified plasma membranes isolated from an insect cell system (Sf9 cells transfected with baculovirus) expressing MDR1. MDR1 is an important determinant of drug disposition, through its role in processes such as absorption at the small intestine and transfer across the blood-brain barrier to the CNS.
Form	Frozen
Concept Behind ABC Transporter Vesicles	ABC transporter vesicles are easy-to-use, efficient reagents for early assessment of a drug candidate's substrate and drug interaction potential. While ABC transporters typically mediate the export of substrates out of cells, transporters expressed on these inside-out vesicles import substrates into the vesicles. It is therefore possible to quantitatively evaluate transport activity for your compound by determining the

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amount incorporated into the vesicles.

Clear and Reliable Results

Prepared from Sf9 cells which have been engineered to over-express specific ABC transporters, these 'inside-out' vesicles provide high levels of transporter activity with low background, giving you a clear signal if your compound is a substrate or inhibitor of a specific efflux transporter.

Applications

Use Human MDR1 Vesicles to: • Investigate the transporter interactions of your drug candidates • Assess potential for transporter-mediated drug-drug interactions • Obtain high quality results with a large signal to noise ratios

Notes

For Research Use Only. Not intended for animal or human therapeutic or diagnostic use. For Research Use Only. Not for use in diagnostic procedures.

Storage

Store at -80 centigrade.

Shipping

Dry Ice

GENE INFORMATION

Gene Name

ABCB1 ATP binding cassette subfamily B member 1 [Homo sapiens (human)]

Official Symbol

ABCB1

Synonyms

ABCB1; ATP-binding cassette, sub-family B (MDR/TAP), member 1; CLCS, colchicin sensitivity , MDR1, PGY1; multidrug resistance protein 1; ABC20; CD243; GP170; P gp; P-glycoprotein 1; colchicin sensitivity; doxorubicin resistance; CLCS; MDR1; P-GP; PGY1;

Gene ID

5243

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mRNA Refseq	NM_000927
Protein Refseq	NP_000918
MIM	171050
UniProt ID	P08183

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