

Human MRP1 Vesicles, ABC transporter vesicles

Cat. No. MRP1 Vesicles-08H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MRP1 Vesicles are insect derived purified plasma membranes with inserted MRP1 transport protein (multidrug resistance-associated protein 1, ABCC1). Our Human MRP1 Vesicles can be used to evaluate test compounds and drug interactions with MRP1 in in vitro assays. MRP1 is an ATP-binding cassette (ABC) transporter that carries organic anions.
Species	Human
Source	Insect Cells
Description	Human MRP1 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 MRP1. MRP1 is expressed in various normal organs, and also in tumor cells. MRP1 is associated with multidrug resistance to anti-cancer drugs.
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 amount incorporated into the vesicles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 MRP1 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	ABCC1 ATP binding cassette subfamily C member 1 (ABCC1 blood group) [Homo sapiens (human)]
Official Symbol	ABCC1
Synonyms	ABCC1; ATP-binding cassette, sub-family C (CFTR/MRP), member 1; MRP, MRP1, multidrug resistance associated protein 1; multidrug resistance-associated protein 1; GS X; LTC4 transporter; leukotriene C(4) transporter; ATP-binding cassette transporter variant ABCC1delta-ex13; ATP-binding cassette transporter variant ABCC1delta-ex25; ATP-binding cassette transporter variant ABCC1delta-ex13and 14; ATP-binding cassette transporter variant ABCC1delta-ex25& 26; MRP; ABCC; GS-X; MRP1; ABC29; DKFZp781G125; DKFZp686N04233;

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Gene ID	4363
mRNA Refseq	NM_004996
Protein Refseq	NP_004987
MIM	158343
UniProt ID	P33527

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