Human MRP3 Vesicles, ABC transporter vesicles

Cat. No. MRP3 Vesicles-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRP3 Vesicles are insect derived purified plasma membranes with inserted MRP3 transport protein (Multidrug Resistance-associated Protein 3, ABCC3). Our Human MRP3 Vesicles can be used to evaluate test compounds and drug interactions with MRP3 in in vitro assays. MRP3 is an efflux ATP-binding cassette (ABC) transporter that carries glucuronide conjugates and organic anions, such as methotrexate and leukotriene C4.
Species	Human
Source	Insect Cells
Description	Human MRP3 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 MRP3. MRP3 is is expressed on the basolateral side of small intestinal epithelial cells, where it plays a role in drug and bile acid absorption from the small intestine. It is also present on the basolateral side (vascular side) of hepatocytes, where it plays a role in xenobiotic excretion.
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

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	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.
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 MRP3 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	ABCC3 ATP binding cassette subfamily C member 3 [Homo sapiens (human)]
Official Symbol	ABCC3
Synonyms	ABCC3; ATP-binding cassette, sub-family C (CFTR/MRP), member 3; canalicular multispecific organic anion transporter 2; cMOAT2; EST90757; MLP2; MOAT D; MRP3; multidrug resistance associated protein; multidrug resistance-associated protein 3; ATP-binding cassette sub-family C member 3; multi-specific organic anion transporter D; canicular multispecific organic anion transporter; ABC31; MOAT-D;

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Gene ID	8714
mRNA Refseq	NM_001144070
Protein Refseq	NP_001137542
MIM	604323
UniProt ID	O15438

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