Human MRP4 Vesicles, ABC transporter vesicles

Cat. No. MRP4 Vesicles-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRP4 Vesicles are insect derived purified plasma membranes with inserted MRP4 transport protein (multidrug resistance-associated protein 4, ABCC4). Our Human MRP4 Vesicles can be used to evaluate test compounds and drug interactions with MRP4 in in vitro assays. MRP4 is an ATP-binding cassette (ABC) transporter that carries organic anions, including nucleic acid derivatives, prostaglandins, and methotrexate.
Species	Human
Source	Insect Cells
Description	Human MRP4 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 MRP4. MRP4 is highly expressed in proximal uriniferous tubules in the kidney, and plays an important role in drug excretion from the kidney. MRP4 has also been identified in vascular endothelial cells of the brain, where it greatly influences drug behavior at the blood-brain barrier.
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 MRP4 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	At -80 centigrade
Shipping	Dry Ice

GENE INFORMATION

Gene Name	ABCC4 ATP binding cassette subfamily C member 4 (PEL blood group) [Homo sapiens (human)]
Official Symbol	ABCC4
Synonyms	ABCC4; ATP-binding cassette, sub-family C (CFTR/MRP), member 4; multidrug resistance-associated protein 4; bA464I2.1 (ATP binding cassette; sub family C (CFTR/MRP); member 4); canalicular multispecific organic anion transporter (ABC superfamily); EST170205; MOAT B; MOATB; MRP4; multidrug resistance associated

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	protein 4; multispecific organic anion transporter B; MRP/cMOAT-related ABC transporter; ATP-binding cassette sub-family C member 4; multi-specific organic anion transporter B; bA464I2.1 (ATP-binding cassette, sub-family C (CFTR/MRP), member 4); MOAT-B;
Gene ID	10257
mRNA Refseq	NM_001105515
Protein Refseq	NP_001098985
MIM	605250
UniProt ID	O15439

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