

Rat MRP2 Vesicles, ABC transporter vesicles

Cat. No. MRP2 Vesicles-02R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat MRP2 Vesicles are insect derived purified plasma membranes with inserted MRP2 transport protein (multidrug resistance-associated protein, ABCC2). Our Rat MRP2 Vesicles can be used to evaluate test compounds and drug interactions with MRP2 in in vitro assays. MRP2 is an ATP-binding cassette (ABC) transporter that carries organic anions.
Species	Rat
Source	Insect Cells
Description	Rat MRP2 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 MRP2. MRP2 is expressed in various organs, and is thought to play a role in excretion of various compounds from the kidney and liver, based on its localization on the canalicular plasma membrane of hepatocytes and brush border membrane of tubular epithelial cells.
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

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	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 Rat MRP2 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 for use in diagnostic procedures.
Storage	Store at -80 centigrade.
Shipping	Dry Ice

GENE INFORMATION

Gene Name	Abcc2 ATP binding cassette subfamily C member 2 [Rattus norvegicus (Norway rat)]
Official Symbol	ABCC2
Synonyms	ABCC2; ATP-binding cassette, subfamily C (CFTR/MRP), member 2; canalicular multispecific organic anion transporter 1; canalicular multidrug resistance protein; multidrug resistance associated protein 2; multidrug resistance-associated protein 2; ATP-binding cassette sub-family C member 2; calicular multispecific organic anion transporter; ATP-binding cassette, sub-family C (CFTR/MRP), member 2; Mrp2; Cmoat;

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Gene ID	25303
mRNA Refseq	NM_012833
Protein Refseq	NP_036965
UniProt ID	Q63120

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