

Dog BSEP Vesicles, ABC transporter vesicles

Cat. No. BSEP Vesicles-14D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Dog BSEP Vesicles are insect derived purified plasma membranes with inserted BSEP transport protein (bile salt export pump, ABCB11). Our Dog BSEP Vesicles can be used to evaluate test compounds and drug interactions with BSEP in in vitro assays. BSEP is an ATP-binding cassette (ABC) transporter that plays a key role in bile acid excretion from the liver.
Species	Canine
Source	Insect Cells
Description	Dog BSEP 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 BSEP. Evaluation of the inhibitory activity of newly developed compounds towards BSEP-mediated transport of bile acids (e.g. taurocholate) may give an indication of potential hepatotoxicity of the compounds.
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 Dog BSEP 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

ABCC11 ATP binding cassette subfamily C member 11 [*Canis lupus familiaris* (dog)]

Official Symbol

ABCB11

Synonyms

ABCC11; ATP binding cassette subfamily C member 11; ATP-binding cassette sub-family C member 11; ATP-binding cassette, sub-family C (CFTR/MRP), member 11

Gene ID

100856571

mRNA Refseq

XM_038659407

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Protein Refseq	XP_038515335
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UniProt ID	A0A8C0SSV3
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