

**Data Sheet**
**Human BCRP(ABCG2)**

**Catalog Number** ..... GM0008  
**Lot Number** ..... BNA5G03  
**Storage Condition** ..... -80 °C  
**Protein Concentration**: 5mg/ml in TEMP solution\* (Protein concentration was determined by BCA protein assay using BSA as standard protein)  
**Total Volume** ..... 500 µl (Total Protein: 2.5 mg)  
**Expiration Date** ..... September 30<sup>th</sup>, 2014  
**Intended Use** ..... For vesicular transport assay only.

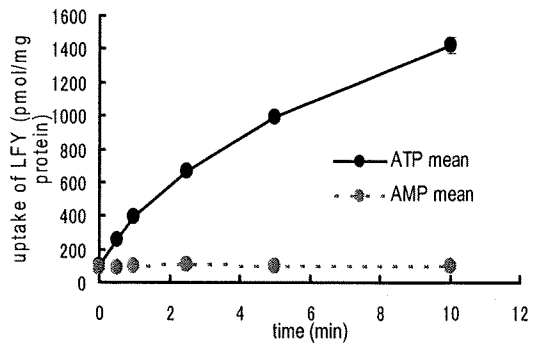
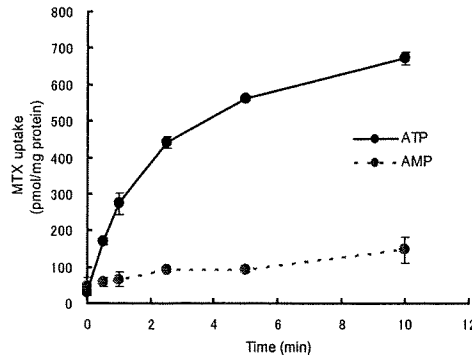
This product is prepared from purified plasma membranes isolated from an insect cell system (Sf9 cells infected with baculovirus) expressing human BCRP.

**\*TEMP Solution**

50mM	.....	Tris-HCl (pH 7.0)
50mM	.....	Mannitol
2mM	.....	EGTA
8µg/ml	.....	Aprotinin
10µg/ml	.....	Leupeptin
2mM	.....	DTT

- **Transport Activity**

The following data shows a time-dependent uptake for Methotrexate as RI-labeled substrate and Lucifer yellow as fluorescent substrate.



**Reference Substrate (concentration):** [<sup>3</sup>H] Methotrexate (100 µM)

Lucifer yellow (10 µM)

**ATP-dependent Methotrexate uptake:** 207 pmol / mg protein / min

**ATP-dependent Lucifer yellow uptake:** 296 pmol / mg protein / min



- **Note**

- Thaw vesicles rapidly at 37 °C. Place on ice until use.
- It is recommended for reliable and reproducible data to minimize freeze/thaw cycle by dividing aliquot to small portions.

**THIS PRODUCT IS SUPPLIED FOR LABORATORY RESEARCH USE ONLY.**

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