



GenoMembrane

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Data Sheet

Human MRP2

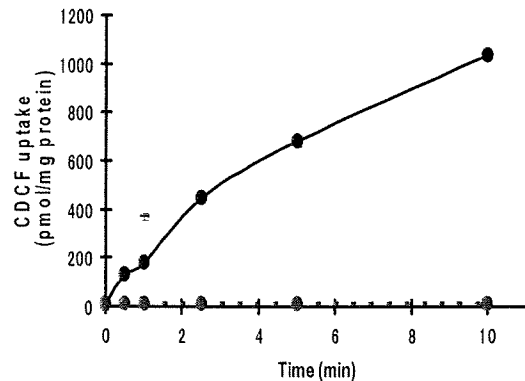
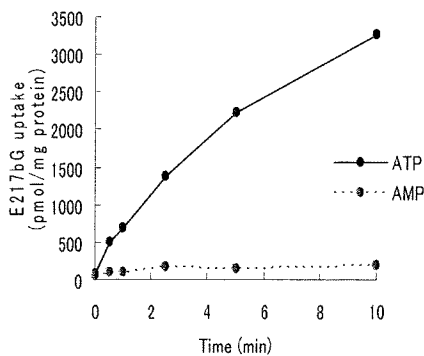
Catalog Number GM0001
Lot Number GMIIIG23
Storage Condition -80 °C
Protein Concentration: 5mg/ml in TEMP solution* (Protein concentration was determined by BCA protein assay using BSA as standard protein)
Total Volume 500 µl (Total Protein: 2.5 mg)
Expiration Date July 19st, 2015
Intended Use For vesicular transport assay and ATPase assay.

This product is prepared from purified plasma membranes isolated from an insect cell system (Sf9 cells infected with baculovirus) expressing human MRP2.

***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 each time-dependent uptake for E₂-17βG as RI-labeled substrate and CDCF as fluorescent substrate.



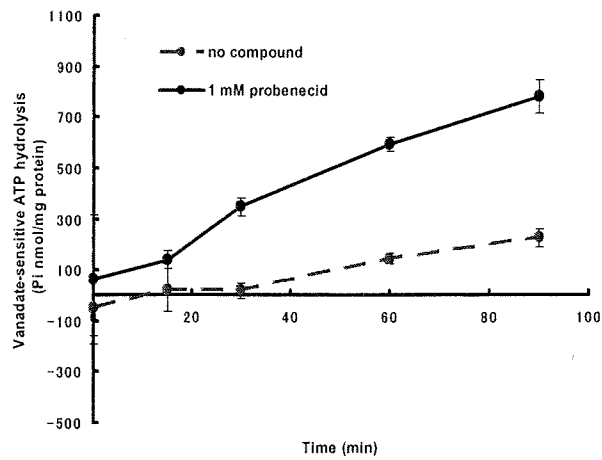
Reference Substrate (concentration) : [³H] Estradiol-17-β-D-glucuronide (50 µM)

5-(and-6)-carboxy-2', 7'-dichlorofluorescein (CDCF) (5µM)

ATP-dependent E₂ 17βG uptake: **418** pmol / mg protein / min

ATP-dependent CDCF uptake: **169** pmol / mg protein / min

• **ATPase Activity**



Reference Substrate :

1mM Probenecid

- 1) Basal orthovanadate-sensitive ATPase activity : 2 nmol phosphate/mg protein/min
- 2) Total ATPase activity stimulated by reference substrate : 10 nmol phosphate/mg protein/min
- 2)-1) Substrate-stimulated orthovanadate-sensitive ATPase activity : 8 nmol phosphate/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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