

Data Sheet

Rat Mrp2

Catalog Number : GM0002
Lot Number : HMUSG23
Storage Condition : -80 °C
Protein Concentration: 5 mg/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 : February 17th, 2019
Applicable Use : For vesicular transport assay and ATPase assay.

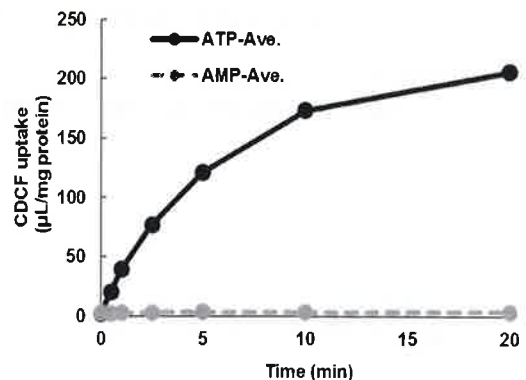
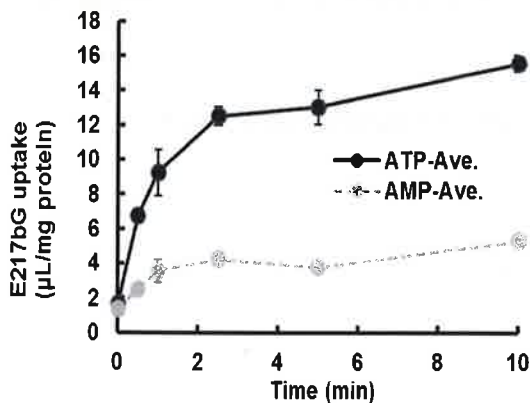
This product is prepared from purified plasma membranes isolated from an insect cell system (Sf9 cells infected with baculovirus) expressing rat Mrp2.

***TEMP Solution**

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

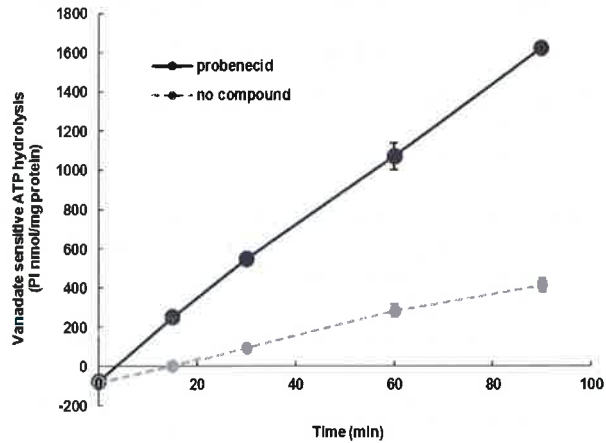
● Transport Activity

The following data shows each time-dependent uptake for E₂-17βG as RI-labeled substrate and CDCF as fluorescent substrate.



Substrate (Concentration)	ATP-dependent Uptake
[³ H] Estradiol-17β-D-glucuronide (50 µM)	8.5 µL/mg protein/min
5-(and-6)-Carboxy-2',7'-dichlorofluorescein (CDCF) (5 µM)	30 µL/mg protein/min

● **ATPase Activity**



Substrate : 1 mM Probenecid

Basal Orthovanadate-sensitive ATPase activity	5 nmol phosphate/mg protein/min
Total ATPase activity stimulated by reference substrate	18 nmol phosphate/mg protein/min
Substrate-stimulated Orthovanadate-sensitive ATPase activity	13 nmol phosphate/mg protein/min

● **Note**

- Thaw vesicles rapidly at 37 °C. Place on ice and must be used within 2 hours after thawing.
- It is recommended for reliable and reproducible data to minimize freeze/thaw cycle by dividing aliquot to small portions.

● **Caution!**

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



GenoMembrane

75-1 Ono, Tsurumi
 Yokohama, Kanagawa 230-0046 JAPAN
 Tel :+81-45-508-2326
 Fax:+81-50-5548-3009
<http://www.genomembrane.com>
info@genomembrane.com

Checked

H.M.

Made by

S.K.