

## Data Sheet

# Human MRP2

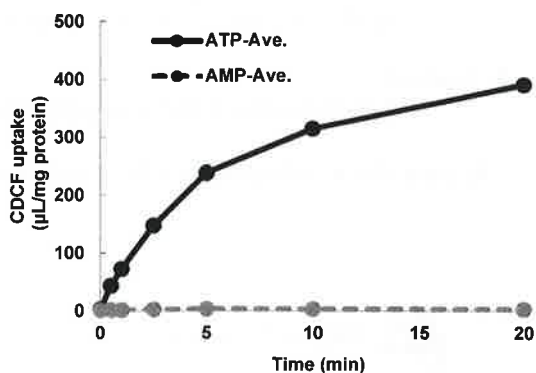
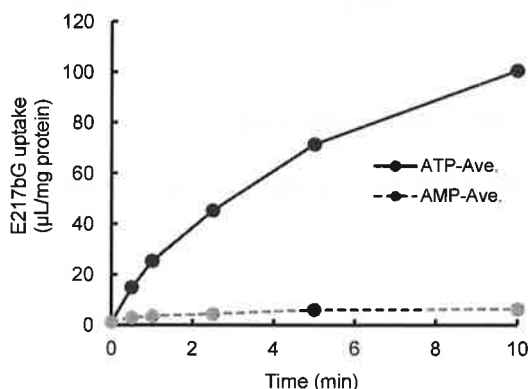
**Catalog Number** ..... : GM0001  
**Lot Number** ..... : HK18G26  
**Storage Condition** .... : -80 °C  
**Protein Concentration**: 5 mg/ml in TEMP solution\* (Protein concentration was determined by BCA protein assay using BSA as standard protein)  
**Total Volume** ..... : 500 µl (Total Protein: 2.5 mg)  
**Expiration Date** ..... : March 14<sup>th</sup>, 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 human 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

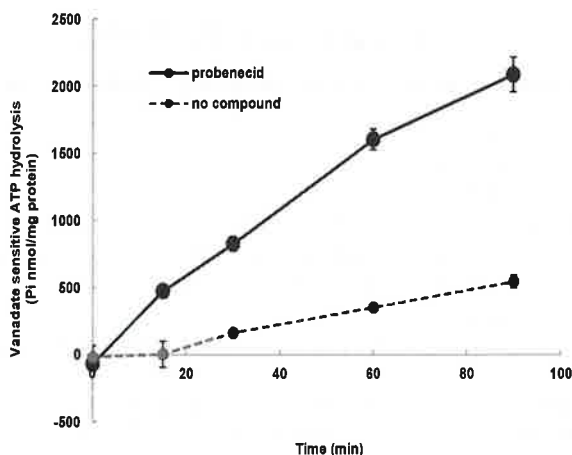
### ● Transport Activity

The following data shows each time-dependent uptake for E<sub>2</sub>-17βG as RI-labeled substrate and CDCF as fluorescent substrate.



Substrate (Concentration)	ATP-dependent Uptake
[ <sup>3</sup> H] Estradiol-17β-D-glucuronide (50 µM)	<b>13</b> µL/mg protein/min
5-(and-6)-Carboxy-2',7'-dichlorofluorescein (CDCF) (5 µM)	<b>71</b> µL/mg protein/min

● **ATPase Activity**



**Substrate : 1 mM Probenecid**

Basal Orthovanadate-sensitive ATPase activity	<b>6</b> nmol phosphate/mg protein/min
Total ATPase activity stimulated by reference substrate	<b>27</b> nmol phosphate/mg protein/min
Substrate-stimulated Orthovanadate-sensitive ATPase activity	<b>21</b> 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.**

***This product is licensed with patents of Queen's university and Kyushu University.***



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