

Human MDR1 (ABCB1)

Catalog Number..... GMC015
 Lot Number 1010Y
 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 2013/Aug. 26th
 Intended Use For vesicular transport assay and ATPase assay

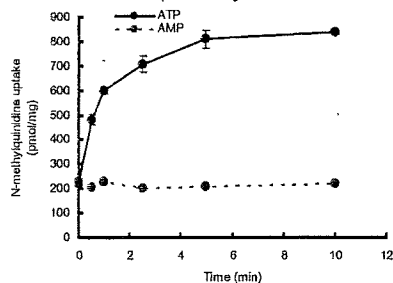
This product is prepared from purified plasma membranes isolated from an insect cell system (Sf9 cells infected with baculovirus) expressing human MDR1.

*** 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

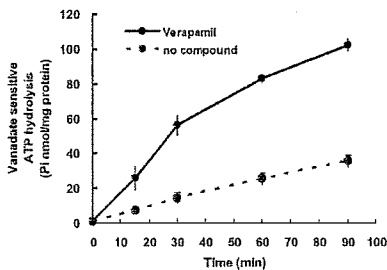
• Transport activity

The protocol for vesicular transport assay is attached with this product.



Reference substrate : 5 µM N-methylquinidine
 ATP-dependent N-methylquinidine uptake : **368** pmol/mg protein/min

• ATPase activity



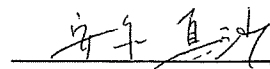
Reference substrate : 50 µM Verapamil

- 1) Basal orthovanadate-sensitive ATPase activity : **24** nmol phosphate/mg protein/min
- 2) Total ATPase activity stimulated by reference substrate : **93** nmol phosphate/mg protein/min
- 2-1) Substrate-stimulated orthovanadate-sensitive ATPase activity : **69** 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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