

ATP-TR-BCRP-R482G 1.0	 SOLVO Biotechnology	
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Membrane Product Data Sheet [BCRP-R482G-Sf9-ATPase]

Catalogue number: SB-BCRP-R482G-Sf9-ATPase

Description: Isolated Sf9 cell membranes, containing human BCRP (ABCG2-R482G variant)

Date of production (dd.mmm.yyyy):

Expiry date (dd.mmm.yyyy): when stored at $-80\text{ }^{\circ}\text{C}$

Packaging: 1 tube containing membrane suspended in TMEP solution. (TMEP: 50 mM Tris, 50 mM mannitol, 2 mM EGTA, 8 $\mu\text{g/ml}$ aprotinin, 10 $\mu\text{g/ml}$ leupeptin, 50 $\mu\text{g/ml}$ PMSF, 2 mM DTT, pH 7.0.)

Total volume:

Protein concentration:

Total protein:

	Normal range:	Specific activity:
Basal vanadate-sensitive ATPase activity [nmol Pi/mg/min]	30-80	
Activated ATPase activity [nmol Pi/mg/min]	50-150	
Inhibited ATPase activity [nmol Pi/mg/min]	5-25	
-fold activation vs. control in activation study	1.5-2.0	
-fold activation vs. control in inhibition study	0-1	

Reference substrate for activation study [Conc]: Prazosine (50 μM)

Reference substrate for inhibition study [Conc]: Hoechst 33342 (10 μM)/Ko134 (10 Nm)

Intended use:

Methods:

Protein concentrations were determined using the BCA assay. Vanadate sensitive background ATPase activity was determined as the difference between Pi liberated in the assay buffer and in the presence of 1.2 mM Na_3VO_4 . Activated and inhibited ATPase activity was determined as the difference between the Pi liberated in the presence of the reference substrates and in the presence of 1.2 mM Na_3VO_4 . See assay protocol for further details.

Storage and handling:

- Store at $-80\text{ }^{\circ}\text{C}$
- Thaw membranes in a water bath at $25\text{ }^{\circ}\text{C}$, then store on ice until use.
- The BCRP-ATPase activity of the membranes does not decrease significantly after one freeze-thaw cycle. If you are planning to reuse the same vial, minimize the number of freeze-thaw cycles by making smaller aliquots.

Note: We strongly recommend using SB-defBCRP-Sf9 -CTRL as a transporter negative control.

Validated by:

Date: