

## Product Data Sheet

# RECOMBINANT MULTIDRUG RESISTANCE ABC TRANSPORTER ATP-BINDING/PERMEASE PROTEIN BmRA

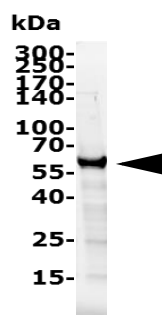
### Information

#### PRODUCT DETAILS

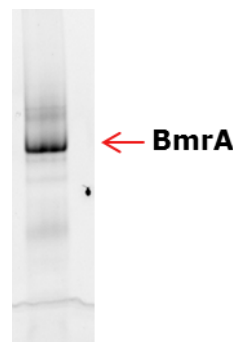
Compound Name	Multidrug Resistance ABC Transporter ATP-binding/permease protein BmrA
Catalog Numbers	41-T101A-10UG 41-T101A-50UG 41-T101A-BULK
Class	Multidrug Resistance ABC Transporter
Sequence	Full-length, wildtype sequence, with a N-terminus 6His-tag:  MSSSHHHHHMPTKKQKSKSKLKPFFALVRRTNPSYGKLAFALASVVTTL VSLLIPLLTQQLVDGFMSNLSGTQIGLIALVFFVQAGLSAYATYALNYNGQK IISGLRELLWKKLIKLPVSYFDTNASGETVSRVTNDTMVVKELITTHISGFITG IISVIGSLTILFIMNWKLTLLVLVVVPLAALILVPIGRKMFSISRETQDETARFTG LLNQILPEIRLVKASNAEDVEYGRGKMGISLFLKLGVREAKVQSLVGPLISLV LMAALVAVIGYGGMQVSSGELTAGALVAFILYLFQIIMPMGQITTFFTQLQKSI GATERMIEILAEEDTDTGKQIENAHLPQLDRVSFGYKPDQLILKEVSAVI EAGKVTAIVGPSGGGKTTLFKLLERFYSPTAGTIRLGDEPVDTSLESWRE HIGYVSQESPLMSGTIRENICYGLERDVTDAEIEKAAEMAYALNFIKELPNQ FDTEVGERGIMLSGGQRQRIARALLRNPSILMLDEATSSLDSQSEKSVQ QALEVLMEGRRTTIVIAHRLSTVVDADQLLFVEKGEITGRGTHHELMASHG LYRDFAEQQLKMNADLENKAG
Affinity Tag	His-tag (N-terminal)
Origin	<i>Bacillus subtilis</i> (strain 168)
Theor. MW	64.5 kDa
Accession #	O06967 (UniProt)
Purification	Immobilized Metal Affinity Chromatography
Purity	>90%
Activity	Confirmed by ATPase activity assay
Sample Buffer	50mM Tris-Cl pH 8.0, 100 mM NaCl, 0.01% DDM, 10% glycerol
Available Quantity	From 10 µg up to mg scale
Shipment Temperature	Dry ice
Storage Conditions	Store at -80°C

## Quality Controls

### Purity



**Figure 1: SDS-PAGE**

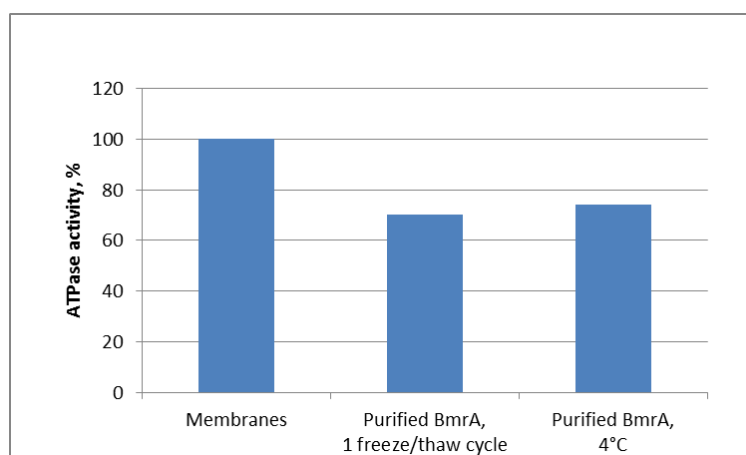


**Figure 2: Clear Native-PAGE.**

IMAC elution fraction of BmrA was migrated on a 4-15% Tris-glycine SDS-PAGE and the total proteins were Stain-Free detected. The black arrow indicates full-length BmrA.

Purified BmrA was migrated on a 4-15% Tris-glycine native-PAGE and the total proteins were Stain-Free detected.

### Activity



**Figure 3: ATPase activity of BmrA.**

Sample specific ATPase activity was measured by a colorimetric assay (see 2 and 3).

## References

- [1] Desuzinges Mandon E. et al. Novel systematic detergent screening method for membrane proteins solubilization. *Anal Biochem.* 2017 Jan 15;517:40-49.
- [2] Matar-Merheb R. et al. Structuring detergents for extracting and stabilizing functional membrane proteins. *PLoS One.* 2011 Mar 31; 6(3):e18036.
- [3] Stéphanie Ravaud et al. The ABC transporter BmrA from *Bacillus subtilis* is a functional dimer when in a detergent-solubilized state. *Biochem J.* 2006 Apr 15; 395(Pt 2): 345–353.

## Additional Information

### Restricted use: Limited Use Label License

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product and progeny, to perform internal research and development for the sole benefit of the purchaser.

### Safety

Not known as a hazardous substance or mixture. General industrial hygiene practices must be followed as the use of adapted personal protective equipment for skin and body.

### Technical support

For additional product and technical information email our Technical Support team at [contact@calixar.com](mailto:contact@calixar.com).

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