

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

Protein information

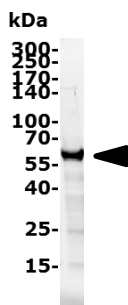
Target Name	Multidrug resistance ABC transporter ATP-binding/permease protein BmrA
Catalogue Number	41-T101A
Class	Multidrug resistance ABC transporter
Sequence	<p>Full-length, wildtype sequence, with a N-terminus 6xHis-tag</p> <p>MSSSHHHHHHMPTKKQKSKSLKPPFALVRRNTNPSYGKLAFALALSVVTLVSLLIPLLTQQLVDG FSMSNLSGTQIGLIALVFFVQAGLSAYATYALNYNGQKIISGLRELLWKKLIKLPVSYFDNASGET VSRVTNDTMVVKELITTHISGFIGIISVIGSLTILFIMNWKLTLLVLVVVPLAALILVPIGRKMFISIRE TQDETARFTGLLNQILPEIRLVKASNAEDVEYGRGKMGISLFLKGVREAKVQSLVGPLISLVLMA ALVAVIGYGGMQVSSGELTAGALVAFILYLFQIIMPQGQITTFQQLKQSIGATERMIEILAEEDT VTGKQIENAHLPQLDRVSFGYKPDQLILKEVSAVIEAGKVTAVGPSGGGKTLFLLERFYSPTA GTIRLGDEPVDYSLESWREHIGYVSQESPLMSGTIRENICYGLERDVTDAEIEKAAEMAYALNFI KELPNQFDTEVGERGIMLSGGQRQRIARALLRNPSILMLDEATSSLDSQSEKSVQQALEVLME GRTTIVIAHRLSTVVDADQLLFVEKGEITGRGTHHELMASHGLYRDFAEQQLKMNADLENKAG</p>
Affinity Tag	His-tag (N-terminal)
Origin	<i>Bacillus subtilis</i> (strain 168)
Theor. MW	64.5 kDa
Accession #	O06967 (UniProt)

Protein production

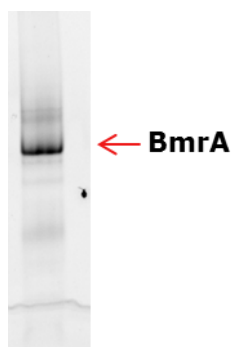
Expression system	<i>Escherichia coli</i> (BL21C43)
Purification	Immobilized Metal Affinity Chromatography
Purity	>90%
Activity	Confirmed by ATPase activity assay
Sample Buffer	50mM Tris-Cl pH 8.0, 100 mM NaCl, 0.01% DDM, 10%glycerol
Available quantity	From 10µg up to mg scale
References	<ol style="list-style-type: none"> 1- Desuzinges Mandon E. et al. Novel systematic detergent screening method for membrane proteins solubilization. <i>Anal Biochem.</i> 2017 Jan 15;517:40-49. 2- Matar-Merheb R. et al. Structuring detergents for extracting and stabilizing functional membrane proteins. <i>PLoS One.</i> 2011 Mar 31; 6(3):e18036. 3- Stéphanie Ravaud et al. The ABC transporter BmrA from <i>Bacillus subtilis</i> is a functional dimer when in a detergent-solubilized state. <i>Biochem J.</i> 2006 Apr 15; 395(Pt 2): 345–353.

Miscellaneous
Shipment Temperature Dry ice

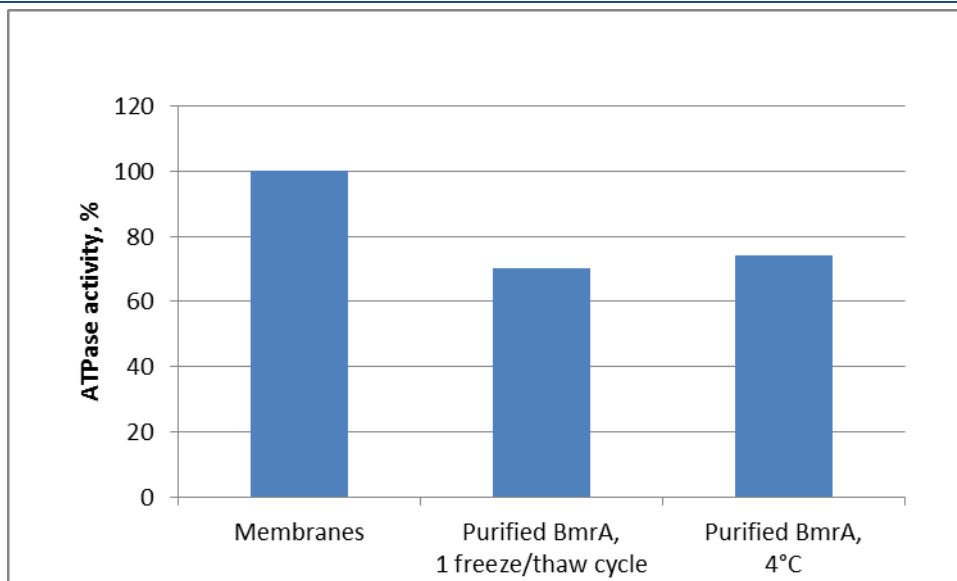
Storage conditions Store at -80°C

Quality Controls (Purity and Activity):

SDS-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.


Clear Native-PAGE.

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



ATPase activity of BmrA.

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

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