ATP Synthase Subunit B' (atpG) Dinoroseobacter Shibae Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit b' (atpG), Recombinant Protein
Full Product Name	Recombinant Dinoroseobacter shibae ATP synthase subunit b' (atpG)
Product Gene Name	atpG recombinant protein
Sequence	MATEATGAVE AAPGMPQLDF STFPNQIFWL IITLVAIYLI LTKVALPRIG SVLAERSGTI TNDLAAAEEL KLAAVEAEKA YNQALADARA EAQKIVAEAR AEIQADLDVA TAKADAEIAA KSAEAEKAIA EIREGAMASV TEVATDTAQA LVAALLPSAK DADVSAAVAE RVKG
Host	Cell Free Expression
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	17,961 Da
Sequence Positions	1-174aa; full length protein
3D Structure	ModBase 3D Structure for A8LKH8
Species	Dinoroseobacter shibae (strain DFL 12)
Product Categories/Family for atpG recombinant protein	Transmembrane Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for atpG recombinant protein	This is a recombinant transmembrane protein expressed in a cell-free expression system.
Related Product Information for atpG recombinant protein	MBS7009935 is a recombinant protein targeting atpG. Also known as Recombinant Dinoroseobacter shibae ATP synthase subunit b' (atpG). Host: Cell Free Expression.
Other Notes	Small volumes of atpG recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for atpG. It may not necessarily be applicable to this product.

NCBI GI #	501130836
NCBI Accession #	WP_012179689.1
UniProt Primary Accession #	A8LKH8
GenBank Nucleotide #	WP_012179689.1
NCBI Official Full Name	ATP synthase subunit b 2
UniProt Protein Name	ATP synthase subunit b 2
UniProt Synonym Protein Names	ATP synthase F(0) sector subunit b 2; ATPase subunit I 2; F-type ATPase subunit b 2; F-ATPase subunit b 2

Protein Family	ATP synthase
UniProt Gene Name	atpF2
UniProt Synonym Gene Names	atpG; F-ATPase subunit b 2
UniProt Entry Name	ATPF2_DINSH
UniProt Comments for atpG	F1F0 ATP synthase produces ATP from ADP in the presence of a proton or sodium gradient. F-type ATPases consist of two structural domains, F1 containing the extramembraneous catalytic core and F0 containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation ().
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