

Porin MspA Protein, Mycobacterium smegmatis, Recombinant (His)

General Information

Synonyms:	mspA;Porin MspA
Protein Construction:	28-211 aa
Species:	Mycobacterium smegmatis
Expression Host:	E. coli
Accession:	A0QR29
Molecular Weight:	25.4 kDa (predicted)
AA Sequence:	GLDNELSLVDGQDRTLTVQQWDTFLNGVFP LDRNRLTREWFHSGRAKYIVAGPGADEFEGTLELG YQIGFPW SLGVGINFSYTTPNILIDDGDITAPPFGLNSVITPNLFP GVSISADLGNPGIQEVATFSVDVSGAEGGVAVSNA HGTVTGAAGGVLLRPFARLIAS TGDSVTTYGEPWNMN

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The major porin in this organism, forms a water-filled channel which favors the permeation of cations, amino acids, iron Fe(3+) and less efficiently phosphate. Does not transport Fe-ExoMS, the predominant siderophore. Plays a role in transport of beta-lactamase and hydrophilic fluoroquinolone antibiotics such as norfloxacin as well as chloramphenicol. There are about 2400 porins in wild-type, 800 in an mspA deletion and 150 in a double mspA-mspC deletion. Different conductance values with maxima at 2.3 and 4.6 nanosiemens might be caused by a simultaneous reconstitution of MspA channels into the membrane or by the existence of different MspA conformations.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481