

ABCC1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Glutathione-S-conjugate-translocating ATPase ABCC1;MRP1;Leukotriene C(4) transporter (LTC4 transporter);ABCC1;ATP-binding cassette sub-family C member 1;MRP;Multidrug resistance-associated protein 1
Protein Construction:	1248-1531 aa
Species:	Human
Expression Host:	E. coli
Accession:	P33527
Molecular Weight:	35.9 kDa (predicted)
AA Sequence:	VRMSSEMETNIVAVERLKEYSETEKEAPWQIQETAPPSSWPQVGRVEFRNYCLRYREDLDFVLRHINVTINGG EKVGIVGRTGAGKSSLTLGLFRINESAEGEIIIIDGINIAKIGLHDLRFKITIIPQDPVLFSGSLRMNLDPPFSQYSDEE VWTSLELAHLKDFVSALPDKLDHECAEGGENLSVGQRQLVCLARALLRKTILVLDEATAAVDLETDDLIQSTI RTQFEDCTVLTIAHRLNTIMDYTRVIVLDKGEIQEYGAPSDLLQQRGLFY SMA kDaGLV

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Mediates export of organic anions and drugs from the cytoplasm. Mediates ATP-dependent transport of

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glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics. Confers resistance to anticancer drugs by decreasing accumulation of drug in cells, and by mediating ATP- and GSH-dependent drug export. Hydrolyzes ATP with low efficiency. Catalyzes the export of sphingosine 1-phosphate from mast cells independently of their degranulation. Participates in inflammatory response by allowing export of leukotriene C4 from leukotriene C4-synthesizing cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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