

## ABCB1 Protein, Human, Recombinant (His)

## General Information

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| Synonyms:             | ATP-binding cassette sub-family B member 1;Multidrug resistance protein 1;ATP-dependent translocase ABCB1;CD243;PGY1;P-glycoprotein 1;ABCB1;MDR1;Phospholipid transporter ABCB1                                                                                                                                                                                     |
| Protein Construction: | 350-710 aa                                                                                                                                                                                                                                                                                                                                                          |
| Species:              | Human                                                                                                                                                                                                                                                                                                                                                               |
| Expression Host:      | E. coli                                                                                                                                                                                                                                                                                                                                                             |
| Accession:            | P08183                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Weight:     | 44.2 kDa (predicted)                                                                                                                                                                                                                                                                                                                                                |
| AA Sequence:          | PSIEAFANARGAAYEIFKIIDNKPSIDSYKSGHKPDNIKGNLEFRNVHFSYPSRKEVKILKGLNLKVQSGQTVALVGNISGCGKSTTVQLMQRLYDPTGEMVSDGQDIRTINVRFLREIIGVVSQEPVLFATTIAENIRYGRENTVMDIEIKAVKEANAYDFIMKLPKFDTLVGERGAQLSGGQKQRIAIARALVRNPKILLDEATSALDTESEAVVQVALDKARKGRTTIVIAHRLSTVRNADVIAGFDDGVIVEKGNHDELMKEKGIYFKLVTMQTAGNEVELENAADESKSEIDALEMSSNDSRSSLIRKRSTRRSVRSQAQDRKLTKEALDESIPPVSWRIMKLNLEWPHY |

## QC Testing

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| 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:         | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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 &amp; 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**

Translocates drugs and phospholipids across the membrane. Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D-glucosylceramides and sphingomyelins. Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells.

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