

Recombinant Human ABCB1 Protein Product Manual

1. Product Basic Information

Product No.: REP06002

Protein Name: P-Glycoprotein Colchicin Sensitivity (ABCB1)

Aliases: CLCS; MDR1; P-GP; PGY1; ABC20; CD243; ENPAT; GP170; p-170; P-glycoprotein colchicin sensitivity; doxorubicin resistance; ATP-dependent translocase ABCB1

UniProt ID: P08183

UniProt Link: <https://www.uniprot.org/uniprotkb/P08183/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Partial (350-710aa)

Molecular Weight: 44.2 kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (350-710aa)

PSIEAFANARGAAYEIFKIIDNKPSIDSYKSGHKPDNIKGNLEFRNVHFSYPSRKEVK
ILKGLNLKVQSGQTVALVGNVSGCGKSTTVQLMQRLYDPTEGMVSVDDGQDIRTINVR
FLREIIGVVSQEPVLFATTIAENIRYGRENVMTDEIEKAVKEANAYDFIMKLPFKFDTL
VGERGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAVVQVALDKARKGR
TTIVIAHRLSTVRNADVIAGFDDGVIVEKGNHDELMKEKGIYFKLVMTAGNEVELE
NAADESKSEIDALEMSSNDRSSLIRKRSTRRSVVRGSQAQDRKLTKEALDESIPPV
SFWRIMKLNLTWPY

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human ABCB1 partial protein (350-710aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. ABCB1, also known as CLCS or MDR1 or P-GP, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.