

## Product datasheet for **TP710110**

### **P Glycoprotein (ABCB1) (NM\_000927) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human ATP-binding cassette, sub-family B (MDR/TAP), member 1 (ABCB1), residues 347-710aa,with C-terminal DDK tag,expressed in sf9 cells
<b>Species:</b>	Human
<b>Expression Host:</b>	Sf9
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	41 kDa
<b>Concentration:</b>	>50 ug/mL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_000918</a></u>
<b>Locus ID:</b>	5243
<b>RefSeq Size:</b>	4872
<b>Cytogenetics:</b>	7q21.12
<b>RefSeq ORF:</b>	3840
<b>Synonyms:</b>	ABC20; CD243; CLCS; GP170; MDR1; P-GP; PGY1



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**Summary:**

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:**

ABC transporters

**Product images:**