

Recombinant Human TMPRSS3 Protein, His tagged

Cat. No. ABCB1-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human ATP-binding cassette, sub-family B (MDR/TAP), member 1 (ABCB1), Gln347-Tyr710, with N-terminal His tag, expressed in E.coli.
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Species	Human
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Source	E.coli
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ProteinLength	347-710 aa
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Description	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.
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Molecular Mass	40.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Note	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea
Concentration	> 0.05 µg/µL as determined by microplate BCA method
Shipping	Dry Ice

GENE INFORMATION

Gene ID	5243
Gene Name	ABCB1 ATP binding cassette subfamily B member 1 [Homo sapiens (human)]
Official Symbol	5243
Synonyms	ABCB1; ATP binding cassette subfamily B member 1; CLCS; MDR1; P-GP; PGY1; ABC20; CD243; ENPAT; GP170; p-170; ATP-dependent translocase ABCB1; ATP-binding cassette, sub-family B (MDR/TAP), member 1; P-glycoprotein 1; colchicin sensitivity; doxorubicin resistance; multidrug resistance protein 1; phospholipid transporter ABCB1; EC 7.6.2.1; EC 7.6.2.2

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mRNA Refseq	NM_000927
Official Symbol 2	ABCB1
Gene ID 2	5243
Gene Name 2	ABCB1 ATP binding cassette subfamily B member 1 [Homo sapiens (human)]
mRNA Refseq 2	NM_000927
Protein Refseq 2	NP_000918
MIM 2	171050
UniProt ID 2	P08183
SDS-PAGE	