

Recombinant Mouse Multidrug resistance protein 3(Abc4),partial

Catalog No: #AP70002

Package Size: #AP70002-1 20ug #AP70002-2 100ug #AP70002-3 1mg

Description

Product Name	Recombinant Mouse Multidrug resistance protein 3(Abc4),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:352-708aaSequence Info:Cytoplasmic Domain
Other Names	ATP-binding cassette sub-family B member 4Imported Multidrug resistance protein 21 Publication Multidrug resistance protein 3By similarity (EC:3.6.3.44) P-glycoprotein 2By similarity P-glycoprotein 3
Accession No.	P21440
Calculated MW	66.6 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	DAFANARGAAYVIFDIIDNNPKIDSFSERGHKPDNIKGNLEFSDVHFSYPSRANIKLKGLNLKVKSGQTVALVGN NSGCGKSTTVQLLQRLYDPTGKISIDGGQDIRNFNVRCLREIIGVVSQEPVLFSTTIAENIRYGRGNVTMDEIEK AVKEANAYDFIMKLPQKFDTLVGDRGAQLSGGQKQRIARALVRNPKILLDEATSALDTESEAEVQAALDKA REGRTTIVIAHRLSTIRNADVIAGFEDGVIVEQGSSELMMKKEGIYFRLVNMQTAGSQILSEEFLEVELSDEKAAG DVAPNGWKARIFRNSTKSLKSPHQNRLEETNELDANVPPVSFLKVLKLNKTEWPYF
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Energy-dependent phospholipid efflux translocator that acts as a positive regulator of biliary lipid secretion. Functions as a floppase that translocates specifically phosphatidylcholine (PC) from the inner to the outer leaflet of the canalicular membrane bilayer into the canaliculi between hepatocytes. Translocation of PC makes the biliary phospholipids available for extraction into the canaliculi lumen by bile salt mixed micelles and therefore protects the biliary tree from the detergent activity of bile salts (PubMed:8106172, PubMed:7912658, PubMed:7592705, PubMed:7814632, PubMed:8725158, PubMed:9366571). Plays a role in the recruitment of phosphatidylcholine (PC), phosphatidylethanolamine (PE) and sphingomyelin (SM) molecules to nonraft membranes and to further enrichment of SM and cholesterol in raft membranes in hepatocytes (By similarity). Required for proper phospholipid bile formation (PubMed:8106172). Indirectly involved in cholesterol efflux activity from hepatocytes into the canalicular lumen in the presence of bile salts in an ATP-dependent manner (PubMed:7814632, PubMed:8725158). May promote biliary phospholipid secretion as canaliculi-containing vesicles from the canalicular plasma membrane (PubMed:9366571). In cooperation with ATP8B1, functions to protect hepatocytes from the deleterious detergent activity of bile salts (PubMed:21820390). Does not confer multidrug resistance (PubMed:1990275).

References

"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)." The MGC Project Team Genome Res. 14:2121-2127(2004) Research Topic: Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.