

ABCC1 Protein, Human (His)

Cat. No.:	HY-P72069
Synonyms:	ABC 29; ABC29; ABCC 1; ABCC; Abcc1; ATP binding cassette sub family C CFTR/MRP; member 1; ATP binding cassette sub-family C member 1; ATP binding cassette subfamily C member 1; ATP binding cassette transporter variant ABCC1delta ex13; ATP binding cassette transporter variant ABCC1delta ex13&14; ATP binding cassette transporter variant ABCC1delta ex25; ATP binding cassette transporter variant ABCC1delta ex25&26; ATP binding cassette, sub-family C CFTR/MRP; , member 1; ATP-binding cassette sub-family C member 1; DKFZp686N04233; DKFZp781G125; GS X; GSX; Leukotriene C4; transporter; LTC4 transporter; MRP 1; MRP; MRP1; MRP1_HUMAN; Multidrug resistance associated protein 1; Multidrug resistance protein; Multidrug resistance-associated protein 1; Multiple drug resistance associated protein; Multiple drug resistance protein 1
Species:	Human
Source:	E. coli
Accession:	P33527 (V1248-V1531)
Gene ID:	4363
Molecular Weight:	Approximately 35.9 kDa

PROPERTIES

AA Sequence	<pre> VRMSSEMETN IVAVERLKEY SETEKEAPWQ IQETAPPSSW PQVGRVEFRN YCLRYREDLD FVLRHINVTI NGGEKVGIVG RTGAGKSSLT LGLFRINESA EGEI IIDGIN IAKIGLHDLR FKITIIIPQDP VLFSGSLRMN LDPFSQYSDE EVWTSLELAH LKDFVSAALPD KLDHECAEGG ENLSVGQRQL VCLARALLRK TKILLVLDEAT AAVDLETDDL IQSTIRTQFE DCTVLTIAHR LNTIMDYTRV IVLDKGEIQE YGAPSDLLQQ RGLFYSMAKD aGLV </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Multidrug resistance protein 1 (MRP1, ABCC1) is a multitasking ATP-binding cassette (ABC) transporter that likely influences the etiology and progression of a host of human diseases. MRP1 transports a wide range of therapeutic agents as well as diverse physiological substrates and may play a role in the development of drug resistance in several cancers including those of the lung, breast and prostate, as well as childhood neuroblastoma. There is increasing evidence that MRP1 is a MYCN target gene involved in the development of multidrug resistance in neuroblastoma. MRP1 also plays a part in inflammatory and other immunological diseases, age-related macular degeneration, cardiovascular disease, and certain neurological disorders as well as tumor progression^{[1][2]}.

REFERENCES

- [1]. Cole SPC, et, al. Multidrug resistance protein 1 (MRP1, ABCC1), a "multitasking" ATP-binding cassette (ABC) transporter. *J Biol Chem*. 2014 Nov 7;289(45):30880-8.
- [2]. Munoz M, et, al. Role of the MRP1/ABCC1 multidrug transporter protein in cancer. *IUBMB Life*. 2007 Dec;59(12):752-7.
-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA