

## ABCC4 Protein, Human (HEK293, GFP, Strep, His)

Cat. No.:	HY-P701354
Synonyms:	ABCC4; ATP-binding cassette sub-family C member 4; MRP/cMOAT-related ABC transporter; Multi-specific organic anion transporter B; MOAT-B; Multidrug resistance-associated protein 4
Species:	Human
Source:	HEK293
Accession:	O15439 (M1-L1325)
Gene ID:	10257
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH8.5, 150 mM KCl, 2 mM DTT, 2 mM MgCL2, 0.005% (w/v) GDN.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	ABCC4 protein, a member of the ATP-binding cassette (ABC) family, operates as an ATP-dependent transporter responsible for actively extruding both physiological compounds and xenobiotics from cells. It exhibits versatility in transporting endogenous molecules crucial for cellular communication and signaling, including cyclic nucleotides such as cyclic AMP (cAMP) and cyclic GMP (cGMP), bile acids, steroid conjugates, urate, and prostaglandins. ABCC4 also plays a role in the ATP-dependent efflux of glutathione conjugates, such as leukotriene C4 (LTC4) and leukotriene B4 (LTB4), with the presence of glutathione being essential for the transport of LTB4 but not LTC4. Furthermore, it mediates the cotransport of bile acids with reduced glutathione. The functional scope of ABCC4 extends to the transport of a diverse array of drugs and their metabolites, encompassing anticancer, antiviral, and antibiotic molecules, thereby conferring resistance to certain anticancer agents, including methotrexate.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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