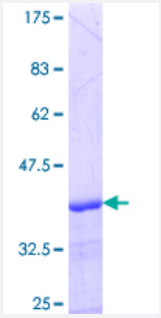
# ABCC5 (Human) Recombinant Protein (Q01)

Catalog # H00010057-Q01 Size 25 ug, 10 ug

## Applications




## Specification

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| **Product Description** | Human ABCC5 partial ORF ( NP_005679.2, 760 a.a. - 846 a.a.) recombinant protein with GST-tag a t N-terminal. |
| **Sequence** | CITERGTHEELMNLNGDYATIFNNLLLGETPPVEINSKKETSGSQKKSQDKGPKTGSVKKEKAVKP EEGQLVQLEEKGQGSVPWSVY |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 35.31 |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |
| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ABCC5

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|---|---|
| **Entrez GeneID** | 10057 |
| **GeneBank Accession#** | NM_005688 |
| **Protein Accession#** | NP_005679.2 |
| **Gene Name** | ABCC5 |
| **Gene Alias** | ABC33, DKFZp686C1782, EST277145, MOAT-C, MOATC, MRP5, SMRP, pABC11 |
| **Gene Description** | ATP-binding cassette, sub-family C (CFTR/MRP), member 5 |
| **Omim ID** | 605251 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The 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 MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercatopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing of this gene has been detected; however, the complete sequence and translation initiation site is unclear. [provided by RefSeq |
| **Other Designations** | ATP-binding cassette, sub-family C, member 5\|canalicular multispecific organic anion transporter C |

## Pathway

- ABC transporters

## Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Hearing Loss
- Kidney Failure