

Recombinant Full Length Human ABCC8 Protein, C-Flag-tagged

Cat. No. ABCC8-811HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ABCC8 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 as a modulator of ATP-sensitive potassium channels and insulin release. Mutations in the ABCC8 gene and deficiencies in the encoded protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternatively spliced transcript variants have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	176.8 kDa

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AA Sequence

MPLAFCGSENHSAAYRVDQGVLNNGCFVDALNVVPHVFLLFITFPILFIGWGSQSSK
VHHHSTWLHFPG HNLRWILTFMLLFVLVCEIAEGILSDGVTESHHHLHYMPAGMAF
MAAVTSVVYYHNIETSNFPKLLIAL VYWTAFITKTIKFVKFLDHAIGFSQLRFCLTGL
LVILYGMLLLVEVNVIRVRRYIFFKTPREVKPPEDL QDLGVRFLQPFPVNLSSKGTYW
WMNAFIKTAHKKPIDLRAIGKLPIAMRALTN YQRLCEAFDAQVRKDIQG TQGARAIW
QALSHAFGRRLVLSSTFRILADLLGFAGPLCIFGIVDHLGKENDVFQPKTQFLGVYFV
SSQE FLANAYVLAVLLFLALLLQRTFLQASYYYVAIETGINLRGAIQTKIYNKIMHLSTSN
LSMGEMTAGQICNL VAIDTNQLMWFFFLCPNLWAMPVQIIVGVILLYILGVLSALIGA
AVIILLAPVQYFVATKLSQAQRSTLE YSNERLKQTNEMLRGIKLLKLYAWENIFRTRV
ETTRRKEMTS LRAFAIYTSISIFMNTAIPAAVLITFV GHVSFFKEADFSPSVAFASLSL
FHILVTPLFLLSSVVRSTVKALVSVQKLSEFLSSAEIREEQCAPHEPT PQGPASKYQA
VPLRVVNRKRPAREDCRGLTGPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTL
SNIT IRIPRGQLT MIVGQVGC GKSSLLAALGEMQKVSGAVFWSSLPDSEIGEDPSP
ERETATDLDIRKGPVA YASQKPWLLNATVEENIIFESP FNKQRYKMVIEACSLQPDI
DILPHGDQTQIGERGINLSGGQRQRISVA RALYQHANVVFLDDPFSAIDHLSDHLM
QAGILELLRDDKRTVVLVTHKLQYLPHADWIIAMKDGTIQRE GTLKDFQRSECQLFE
HWKTLMNRRQDQELEKETVTERKATEPPQGLSRAMSSRDGLLQDEEEEEEEAAESE
EDDNLSSMLHQRAEIPWRACAKYLSSAGILLLSLLVFSQLLKHMVLVAIDYWLAKWT
DSALTTPAARNC SLSQECTLDQTVYAMVFTVLC SLGIVLCLVTSVTVEWTGLKVAK
RLHRSLNRIILAPMRFFETTP LGSILNRFSSDCNTIDQHIPSTLECLSRSTLLCVSALA
VISYVTPVFLVALLPLAIVCYFIQKYFRVASRDLQQ LDDTTQLPLLSHFAETVEGLTTI
RAFRYEARFQQKLE YTDSNNIASLFLTAANRWLEVRMEYIGACVVL IAAVTSISNSL
HRELSAGLVGLGLTYALMVS NYLNWMVRNLADMELQLGAVKRIHGLLKTEAESYEG
LLA PSLIPKNWPDQGKI QIQLNSVRYDSSLKPVLKHNAL IAPGQKIGICGRTGSGKS
SFSLAFFRMVDTFEG HIIIDGIDIAKLPLHLTLRSRLSIILQDPVLFSGTIRFNLDPERKCS
DSTLWEALEIAQLKLVVKALPGGL DAIITEGGENFSQ GQRQLFCLARAFVRKTSIFIM
DEATASIDMATENILQKVVM TAFADRTVVTIAHRVH
TILSADLVIVLKRGAILEFDKPEKLLSRKDSVFASFVRADKTRTRPLEQKLISEEDLAAN
DILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	ABC transporters, Type II diabetes mellitus
Full Length	Full L.

GENE INFORMATION

Gene Name	ABCC8 ATP binding cassette subfamily C member 8 [Homo sapiens (human)]
Official Symbol	ABCC8
Synonyms	HI; SUR; HHF1; MRP8; PHHI; SUR1; ABC36; HRINS; PNDM3; TNDM2; SUR1delta2
Gene ID	6833
mRNA Refseq	NM_000352.6
Protein Refseq	NP_000343.2

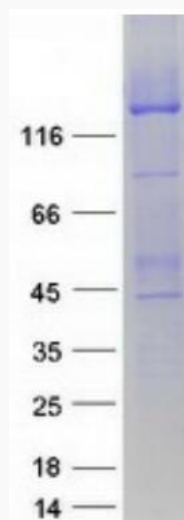
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MIM 600509

UniProt ID Q09428



Coomassie blue staining of purified ABCC8 protein.

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