

Recombinant Human ABCC8 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ABCC8-5866H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ABCC8 MS Standard C13 and N15-labeled recombinant protein (NP_000343) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 and deficiencies in this 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.
Molecular Mass	177.4 kDa
AA Sequence	MPLAFCGSENHSAAYRVDQGVLNNGCFVDALNVVPHVFLLFITFPILFIGWGSQSSK VHIHHSTWLHFPGHNLRWILTFMLLFVLVCEIAEGILSDGVTESHHLHLYMPAGMAF

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MAAVTSVVYYHNIETSNFPKLLIALLVYWTAFITKTIKFKFLDHAIGFSQLRFCLTGL
 LVILYGMLLLVEVNVIRVRRYIFFKTPREVKPPEDLQDLGVRFLQPFVNLLSKGTYWW
 MNAFIKTAHKKPIDLRAIGKLPIAMRALTNYQRLCEAFDAQVRKDIQGTQGARAIIWQA
 LSHAFGRRLVLSSTFRILADLLGFAGPLCIFGIVDHLGKENDVFQPKTQFLGVYFVSS
 QEFLANAYVLAVLLFLALLLQRTFLQASYVVAIETGINLRGAIQTKIYNKIMHLSTSNLS
 MGEMTAGQICNLVAIDTNQLMWFFFLCPNLWAMPVQIIVGVILLYILGVSAIIGAIVII
 LLAPVQYFVATKLSQAQRSTLEYSNERLKQTNEMLRGIKLLKLYAWENIFRTRVETTR
 RKEMTSLRAFAIYTSISIFMNTAIIPIAAVLITFVGHVSVFFKEADFSVAFASLSLFHILV
 TPLFLLSSVVRSTVKALVSVQKLSEFLSSAEIREEQCAPHEPTPQGPASKYQAVPLR
 VVNRKRPAREDCRGLTGPLQSLVPSADGDADNCCVQIMGGYFTWTPDGIPTLSNITI
 RIPRGQLTMIVGQVCGKSSLLLAALGEMQKVSGAVFWSSLPDSEIGEDPSPERET
 ATDLDIRKRGPVAYASQKPWLLNATVEENIIFESPFNKQRYKMVIEACSLQPDIDILPH
 GDQTQIGERGINLSGGQRQRISVARALYQHANVFLDDPFSAIDHLSDHLMQAGIL
 ELLRDDKRTVVLVTHKLQYLPHADWIIAMKDGTIQREGTLKDFQRSECQLFEHWKTL
 MNRQDQELEKETVTERKATEPPQGLSRAMSSRDGLLQDEEEEEEEAAESEEDDNL
 SSMLHQRAEIPWRACAKYLSSAGILLLSLLVFSQLLKHMVLVAIDYWLAKWTDSTLTL
 TPAARNCSLSQECTLDQTVYAMVFTVLCSLGIVLCLVTSVTVEWTGLKVAKRLHRSL
 LNRIILAPMRFFETTPGLSILNRFSSDCNTIDQHIPPSTLECLSRSTLLCVSALAVISYVTP
 VFLVALLPLAIVCYFIQKYFRVASRDLQQLDDTTQLPLLSHFAETVEGLTTIRAFRYEA
 RFQQKLLEYTDSNNIASLFLTAANRWLEVRMEYIGACVVLIAAVTSISNSLHRELSAGL
 VGLGLTYALMVSNYLNWMVRNLADMELQLGAVKRIHGLLKTEAESYEGLLAPSLIPK
 NWPDQGKIQIQNLSVRYDSSLKPVLKHVNALIAPGQKIGICGRTGSGKSSFSLAFFR
 MVDTFEGHIIIDGIDIAKLPLHTLSRSLIILQDPVLFSGTIRFNLDPERKCSDSLWEAL
 EIAQLKL VVKALPGGLDAITEGGENFSQGQRQLFCLARAFVRKTSIFIMDEATASIDM
 ATENILQKVVMATAFADRTVVTIAHRVHTILSADLVIVLKRGAILEFDKPEKLLSRKDSVF
 ASFVRADKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling

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conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ABCC8 ATP binding cassette subfamily C member 8 \[Homo sapiens \(human\) \]](#)

Official Symbol [ABCC8](#)

Synonyms ABCC8; ATP-binding cassette, sub-family C (CFTR/MRP), member 8; HRINS; SUR; ATP-binding cassette sub-family C member 8; ABC36; HHF1; HI; MRP8; PHHI; sulfonylurea receptor (hyperinsulinemia); SUR1; TNDM2; sulfonylurea receptor 1; ATP-binding cassette transporter sub-family C member 8; SUR; HRINS; SUR1delta2;

Gene ID [6833](#)

mRNA Refseq [NM_000352](#)

Protein Refseq [NP_000343](#)

MIM [600509](#)

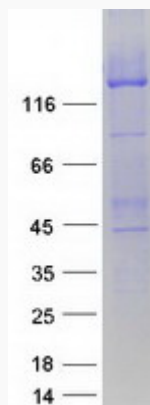
UniProt ID [Q09428](#)

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SDS-PAGE



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