

Recombinant Human SLC22A18 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SLC22A18-5171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SLC22A18 MS Standard C13 and N15-labeled recombinant protein (NP_899056) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is one of several tumor-suppressing subtransferable fragments located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene is imprinted, with preferential expression from the maternal allele. Mutations in this gene have been found in Wilms' tumor and lung cancer. This protein may act as a transporter of organic cations, and have a role in the transport of chloroquine and quinidine-related compounds in kidney. Several alternatively spliced transcript variants encoding different isoforms have been described.
Molecular Mass	44.8 kDa
AA Sequence	MQGARAPRDQGQSPGRMSALGRSSVILLTYVLAATELTCLFMQFSIVPYLSRKLGLD SIAFGYLQTTFGVLQLLGGPVFGRFADQRGARAALTLSFLAALALYLLAAASSPALP GVYLLFASRLPGALMHTLPAAQMVITDLSAPEERPAALGRLGLCFGVGVILGSLLGG

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TLVSAYGIQCPAILAALATLLGAVLSFTCIPASTKGAKTDAQAPLPGGPRASVFDLKAI
ASLLRLPDVPRIFLVKVASNCPTGLFMVMFSIISMDFQLEAAQAGYLMSSFFGLLQMV
TQGLVIGQLSSHFSSEVLLRASVLVFIVVGLAMAWMSSVFHFCLLVPGLVFSLCTLNV
VTDSMLIKAVSTSDTGTMLGLCASVQPLLRTLGPVGGLLYRSFGVPVFGHVQVAIN
TLVLLVLWRKPMPQRKDKVTRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 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 [SLC22A18 solute carrier family 22 member 18 \[Homo sapiens \(human\) \]](#)

Official Symbol [SLC22A18](#)

Synonyms SLC22A18; solute carrier family 22, member 18; BWSCR1A, IMPT1, ORCTL2, SLC22A1L, solute carrier family 22 (organic cation transporter), member 1 like; solute carrier family 22 member 18; BWR1A; ITM; TSSC5; ORCTL-2; efflux transporter-like protein; p45 Beckwith-Wiedemann region 1A; organic cation transporter-like 2; p45-Beckwith-Wiedemann region 1 A; tumor-suppressing STF cDNA 5 protein; organic cation transporter-like protein 2; Beckwith-Wiedemann syndrome chromosome region 1, candidate A; beckwith-Wiedemann syndrome chromosomal region 1 candidate gene A protein; imprinted multi-membrane spanning polyspecific transporter-related

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protein 1; imprinted multi-membrane-spanning polyspecific transporter-related protein 1; tumor-suppressing subchromosomal transferable fragment candidate gene 5 protein; HET; IMPT1; ORCTL2; BWSCR1A; SLC22A1L; p45-BWR1A; DKFZp667A184;

Gene ID 5002

mRNA Refseq NM_183233

Protein Refseq NP_899056

MIM 602631

UniProt ID Q96BI1

SDS-PAGE

