

Product datasheet for TP309263M

CAT1 (SLC7A1) (NM_003045) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 (SLC7A1), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC209263 protein sequence Red=Cloning site Green=Tags(s) |

MGCKVLLNIGQQMLRRKVVDCSREETRLSRCLNTFDLVALGVGSTLGAGVYVLGAVARENAGPAIVISF
LIAALASVLAGLCYGEFGARVPKTGSAYLYSYVTVGELWAFITGWNLILSYIIGTSSVARAWSATFDELI
GRPIGEFSRTHMTLNAPGVLAENPDIFAVIIILITGLLLGVKESAMVNKIFTCINVLVLGFIMVSGFV
KGSVKNWQLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPFGFSGVLSGAATCFYAFVGFDCIATTGEEVK
NPQKAIPVGIVASLLICFIAYFGVSAALTLMMPYFCLDNNPLPDAFKHVGWEGAKYAVAVGSLCALSAS
LLGSMFPMPRVIYAMAEDGLLFKFLANVNDRTKPIIATLASGAVAAVMAFLFDLKDLDLMSIGTLLAY
SLVAACVLVLRYPQEPNLVYQMASTDELDPADQNELASTNDSQLGFLPEAEMFSLKTIKSPKNMEPSK
ISGLIVNISTSLI AVLIIIFCIVTVLGREALTKGALWAVFLLAGSALLCAVVTGVIWRQPESKTKLSFKV
PFLPVLPILSIFVNVYLMMLDQGTWVRFVWMLIGFIIYFGYGLWHSEEASLDADQARTPDGNLDQCK

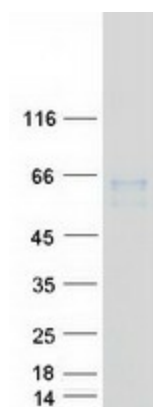
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Predicted MW: | 67.5 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_003036 |
| Locus ID: | 6541 |
| UniProt ID: | P30825 , A0A024RDQ9 |
| RefSeq Size: | 7357 |
| Cytogenetics: | 13q12.3 |
| RefSeq ORF: | 1887 |
| Synonyms: | ATRC1; CAT-1; ERR; HCAT1; REC1L |
| Summary: | High-affinity, low capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) in non-hepatic tissues.[UniProtKB/Swiss-Prot Function] |
| Protein Families: | Druggable Genome, Transmembrane |

Product images:

Coomassie blue staining of purified SLC7A1 protein (Cat# [TP309263]). The protein was produced from HEK293T cells transfected with SLC7A1 cDNA clone (Cat# [RC209263]) using MegaTran 2.0 (Cat# [TT210002]).