

## Product datasheet for **TP309263**

### **CAT1 (SLC7A1) (NM\_003045) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 (SLC7A1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209263 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGCKVLLNIGQQMLRRKVVDCSREETRLSRCLNTFDLVALGVGSTLGAGVYVLGAVARENAGPAIVISF  
LIAALASVLAGLCYGEFGARVPKTGSAYLYSYVTVGELWAFITGWNLILSYIIGTSSVARAWSATFDELI  
GRPIGEFSRTHMTLNAPGVLAENPDIFAVIIILITGLLLGVKESAMVNKIFTCINVLVLGFIMVSGFV  
KGSVKNWQLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPFGFSGVLSGAATCFYAFVGFDCIATTGEEVK  
NPQKAIPVGIVASLLICFIAYFGVSAALTLMMPYFCLDNNPLPDAFKHVGWEGAKYAVAVGSLCALSAS  
LLGSMFPMPRVIYAMAEDGLLFKFLANVNDRTKPIIATLASGAVAAVMAFLFDLKDLDLMSIGTLLAY  
SLVAACVLVLRYPQEPNLVYQMASTDELDPADQNELASTNDSQLGFLPEAEMFSLKTIKSPKNMEPSK  
ISGLIVNISTSLI AVLIIITFCIVTVLGREALTKGALWAVFLLAGSALLCAVVTGVIWRQPESKTKLSFKV  
PFLPVLPILSIFVNVYLMMLDQGTWVRFVWMLIGFIIYFGYGLWHSEEASLDADQARTPDGNLDQCK

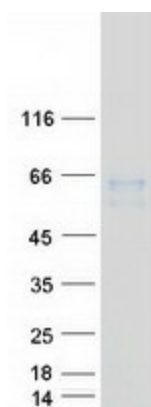
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

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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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003036</a>
<b>Locus ID:</b>	6541
<b>UniProt ID:</b>	<a href="#">P30825</a> , <a href="#">A0A024RDQ9</a>
<b>RefSeq Size:</b>	7357
<b>Cytogenetics:</b>	13q12.3
<b>RefSeq ORF:</b>	1887
<b>Synonyms:</b>	ATRC1; CAT-1; ERR; HCAT1; REC1L
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).