

## Product datasheet for PH309263

### CAT1 (SLC7A1) (NM\_003045) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SLC7A1 MS Standard C13 and N15-labeled recombinant protein (NP_003036)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209263
Predicted MW:	67.6 kDa
Protein Sequence:	>RC209263 protein sequence Red=Cloning site Green=Tags(s)

MGCKVLLNIGQQMLRRKVVDSCSREETRLSRCLNTFDLVALGVGSTLGAGVYVLAGAVARENAGPAIVISF  
LIAALASVLAGLCYGEFGARVPKTGSAYLYSYVTVGELWAFITGWNLILSYIIGTSSVARAWSATFDELI  
GRPIGEFSRTHMTLNAPGVLAENPDIFAVIIILITGLLTLGVKESAMVNKIFTTCINVLVLFIMVSGFV  
KGSVKNWQLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPFGSGVL SGAATCFYAFVGFDCIATTGEEVK  
NPQKAIPVGIVASLLICFIAYFGVSAAL TLMPYFCLDNN SPLPDAFKHVGWEGAKYAVAVGSLCALSAS  
LLGSMFMPRVIYAMAEDGLLKF LANVNDRTKTP I IATLASGAVAAVMAFLFDLKDLDVLM SIGTLLAY  
SLVAACVLVLRYPQEPNLVYQMASTDELDPADQNELASTNDSQLGFLPEAEMFSLKTILSPKNMEPSK  
ISGLIVNISTSLIAVLIITFCIVTVL GREALTKGALWAVFLLAGSALLCAVVTGVIWRQPESKTKLSFKV  
PFLPVLPILSIFVNVYLMMLDQGTWVRFVWMLIGFIIYFGYGLWHSEEASLDADQARTPDGNLDQCK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003036</a>
RefSeq Size:	7357
RefSeq ORF:	1887



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Synonyms:	ATRC1; CAT-1; ERR; HCAT1; REC1L
Locus ID:	6541
UniProt ID:	<a href="#">P30825</a> , <a href="#">A0A024RDQ9</a>
Cytogenetics:	13q12.3
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]).