

Cationic amino acid transporter 5 (CAT5), Recombinant Protein

Cat *RP01800*

Size 1 mg (*E-Coli*)/ 1 mg (*Yeast*)

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Cationic amino acid transporter 5 (CAT5) , partial

Product Gene Name

CAT5 recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MEGEERGYWR WSKRDFPPEE SFQSFGSYRA ALSQTCSRFK NRLVSRSDDE NERFELKKQS EHEMKRCLTW
WDLVWFGFGS VIGAGIFVLT GQEAHEQAGP AIVLSYVVSG LSAMLSVFCY TEFAVEIPVA GGSFAYLRIE
LGDFAAFITA GNILLESIVG TAAVARAWTS YFATLLNRSP NALRIKTDLS SGFNLLDPIA VVVIAASATI
ASISTRKTS LNWIASAINT LVIFFVIIAG FIHADTSNLT PFLPFGPEGV FRAAAVVYFA YGGFDSIATM
AEETKNPSRD IPIGLLGMS IITVIYCLMA LSLSMQKYT DIDPNAAYSV AFQSVGMKWG KYLVALGALK
GMTTVLLVGA LGQARYVTHI ARTHMIPPIF ALVHPKTGTP INANLLVAIP SALIAFFSGL DVLASLLSIS
TLFIFTMMPI ALLVRRYYVR QDTPRVHLIK LITCLLFVVV SSMGTSAYWG MQRKGSWIGY TVTVPFWFLG
TLGIVFFVPQ QRTPKVWGV LVPWLPCLSI ATNIFLMGSL GAMAFVRFGV CTLAMLLYYF LLGLHATFDM
AHQQIVPRT

Sequence Positions

1-569

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E. coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

62,636 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Cationic amino acid transporter

NCBI Accession

NP_181041.1

NCBI GI

15226868

NCBI GenBank Nucleotide

NM_129048.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP01800*

Size 1 mg (*E-Coli*)/ 1 mg (*Yeast*)

NCBI GeneID

818060

NCBI Official Full Name

cationic amino acid transporter 5

NCBI Official Symbol

CAT5

NCBI Official Synonym Symbols

cationic amino acid transporter 5; F19I3.19; F19I3_19

NCBI Protein Information

cationic amino acid transporter 5

NCBI Summary

Encodes a member of the cationic amino acid transporter (CAT) subfamily of amino acid polyamine choline transporters. Mediates efficient uptake of Lys, Arg and Glu in a yeast system. Localized to the plasma membrane.

UniProt Gene Name

CAT5

UniProt Protein Name

Cationic amino acid transporter 5

UniProt Primary Accession

O64759

UniProt Secondary Accession

Q8RX58

UniProt Related Accession

O64759

UniProt Comments

High-affinity permease involved in the transport of the cationic amino acids (e.g. arginine, and, to a lower extent, citrulline and glutamate). Transport mostly basic amino acids, and, to a lower extent neutral and acidic amino acids.

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