

Peptide transporter PTR2 (PTR2), Recombinant Protein

Cat *RP01994*

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

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Peptide transporter PTR2 (PTR2) , partial

Product Gene Name

PTR2 recombinant protein

Purity

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

Sequence

MGSIEEEARP LIEEGLILQE VKLYAEDGSV DFNGNPPLKE KTGNNWKACPF ILGNECCERL AYYGIAGNLI
TYLTTKLHQG NVSAATNVTT WQGTCTLTPL IGAVLADAYW GRYWTIACFS GIYFIGMSAL TLSASVPALK
PAECIGDFCP SATPAQYAMF FGGLYLIALG TGGIKPCVSS FGADQFDDTD SRERVRKASF FNWFYFSINI
GALVSSSLLV WIQENRGWGL GFGIPTVFMG LAIASFFFGT PLYRFQKPGG SPITRISQVV VASFRKSSVK
VPEDATLLYE TQDKNSAIAG SRKIEHTDDC QYLDKAAVIS EEESKSGDYS NSWRLCTVTQ VEELKILIRM
FPIWASGIIF SAVYAQMSTM FVQQGRAMNC KIGSFQLPPA ALGTFTDASV IIWVPLYDRF IVPLARKFTG
VDKGFTEIQR MGIGLFVSVL CMAAAAIVEI IRLHMANDLG LVESGAPVPI SVLWQIPQYF ILGAAEVFYF
IGQLEFFYDQ SPDAMRSLCS ALALLTNALG NYLSSLILT VTYFTTRNGQ EGWISDNLNS GHLDYFFWLL
AGLSLVNMAV YFFSAARYKQ KKASS

Sequence Positions

1-585

Format

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

Host

E. coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

64,421 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

Peptide transporter

NCBI Accession

NP_178313.1

NCBI GI

15226861

NCBI GenBank Nucleotide

NM_126265.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Peptide transporter PTR2 (PTR2), Recombinant Protein

Cat *RP01994*

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

NCBI GeneID

814735

NCBI Official Full Name

peptide transporter 2

NCBI Official Symbol

PTR2

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA PEPTIDE TRANSPORTER 2; AtNPF8.3; ATPTR2; ATPTR2-B; F14H20.11; F14H20_11; HISTIDINE TRANSPORT PROTEIN; NITRATE TRANSPORTER 1; NPF8.3; NRT1/ PTR family 8.3; NTR1; peptide transporter 2; PTR2-B

NCBI Protein Information

peptide transporter 2

NCBI Summary

Encodes a di- and tri-peptide transporter that recognizes a variety of different amino acid combinations. Expression of the transcripts for this gene can be detected in the embryo through in situ hybridization. This protein does not have nitrate transporter activity based on oocyte transport assays.

UniProt Gene Name

NPF8.3

UniProt Synonym Gene Names

NTR1; PTR2; PTR2-B; AtNPF8.3

UniProt Protein Name

Protein NRT1/ PTR FAMILY 8.3

UniProt Synonym Protein Names

Histidine-transporting protein; Peptide transporter PTR2

UniProt Primary Accession

P46032

UniProt Related Accession

P46032

UniProt Comments

Peptide transporter. Mediates the transport of di- and tripeptides. High affinity, low capacity transporter. Can also transport histidine.

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