

# Triose phosphate/phosphate translocator, chloroplast (TPT), Recombinant Protein

Cat *RP15289*

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## Species

*Solanum tuberosum* (Potato)

## Full Product Name

Recombinant *Solanum tuberosum* Triose phosphate/phosphate translocator, chloroplast (TPT)

## Product Synonym Names

Recombinant Triose phosphate/phosphate translocator, chloroplast (TPT); Triose phosphate/phosphate translocator, chloroplast; cTPT; E29

## Product Gene Name

TPT recombinant protein

## Product Synonym Gene Name

TPT

## Purity

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

## Sequence

SIKPCSAAAS SSAGSSDSSG DAKVGFFNKA TLTTGFFFFM WYFLNVIFNI LNKKIYNYFP YPYFVSVIHL  
AVGVVYCLVS WGVGLPKRAP IDSTQLKLLT PVAFCHALGH VTSNVSFAAV RVSFTHTVKA LEPFFNAAAS  
QFILGQQIPL ALWLSLAPVV LGVSMASLTE LSFNWLGFST AMISNISFTY RSIYSKKAMT DMDSTNVYAY  
ISIIALIFCL PPAIFIEGPQ LLQHGFND AIKVGLTKFVT DLFWVGMFYH LYNQVATNTL ERVAPLTHAV  
GNVLKRVFVI GFSIVIFGNK ISTQTGIGTC IAIAGVAIYS FIKAKMEEEEK RQKKA

## Sequence Positions

79-414

## Format

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

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

44,953 Da

## Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

## Protein Family

Triose phosphate/phosphate translocator

## NCBI Accession #

P29463.1

## NCBI GI #

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FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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## NCBI Official Full Name

Triose phosphate/phosphate translocator, chloroplastic

## UniProt Gene Name

TPT

## UniProt Synonym Gene Names

cTPT

## UniProt Protein Name

Triose phosphate/phosphate translocator, chloroplastic

## UniProt Synonym Protein Names

E29

## UniProt Entry Name

TPT\_SOLTU

## UniProt Primary Accession #

P29463

## UniProt Comments

Function: Mediates the export of fixed carbons from the chloroplasts into the cytosol in the form of triose phosphates. Subcellular location: Plastid > chloroplast membrane; Multi-pass membrane protein. Note: Located in zones of contact between the inner and outer membrane of the chloroplast. Sequence similarities: Belongs to the TPT transporter family. TPT (TC 2.A.7.9) subfamily.

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