



Recombinant Human DCT Protein Product Manual

1. Product Basic Information

Product No.: REP06641

Protein Name: L-Dopachrome Isomerase (DCT)

Aliases: DT; OCA8; TRP2; TRP-TYRP2; L-dopachrome isomerase; dopachrome tautomerase; L-dopachrome tautomerase; dopachrome delta-isomerase

UniProt ID: P40126

UniProt Link: <https://www.uniprot.org/uniprotkb/P40126/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Topological Domain (24-472aa)

Molecular Weight: 71.3 kDa

Protein Tag: N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged

2. Amino Acid Sequence (24-472aa)

QFPRVCMTVDSLNVKECCPRLGAESANVCGSQQGRGQCTEVRADTRPWSGPYIL
RNQDDRELWPRKFFHRTCKCTGNFAGYNCGDCKFGWTGPNCERKKPPVIRQNIH
SLSPQEREQFLGALDLAKKRVHPDYVITTQHWLGLLGPNGTQPQFANCSVYDFFV
WLHYYSVRDITLLGPGRPYRAIDFSHQGPAFVTWHRYHLLCLERDLQRLIGNESFAL
PYWNFATGRNECDVCTDQLFGAARPDPTLISRNSRFSSWETVCDSLDDYNHLVT
LCNGTYEGLLRNQMGRNSMKLPTLKDIRDCLSLQKFDNPPFFQNSTFSFRNALEG
FDKADGTLDSQVMSLHNLVHSFLNGTNALPHSAANDPIFVVLHSFTDAIFDEWMKR
FNPPADAWPQELAPIGHNRMYNMVPFFPPVTNEELFLTSDQLGYSYIDL PVSVEE
TPGWPTT

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human DCT topological domain protein (24-472aa) expressed in E.coli. The protein is dual-tagged with 10xHis-SUMO tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. DCT, also known as DT or OCA8 or TRP2, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.