



Recombinant Rat DIO3 Protein Product Manual

1. Product Basic Information

Product No.: REP06673

Protein Name: Type 3 Di (DIO3)

Aliases: D3; 5DIII; TXDI3; DIOIII; type 3 DI; selenoprotein DIO3; thyroxine 5-deiodinase; type-III 5' deiodinase; type 3 iodothyronine selenodeiodinase; iodothyronine deiodinase, placental type; thyroxine deio...

UniProt ID: P55073

UniProt Link: <https://www.uniprot.org/uniprotkb/P55073/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Extracellular Domain (63-304aa(170:U→missing))

Molecular Weight: 31.5kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (63-304aa(170:U→missing))

DFLCIRKHFLRRRHPDHPEPEVELNSEGEEMPDPDPICVSDDNRLCTLASLKAVW
HGQKLDFFKQAHEGGPAPNSEVVRPDGFQSQRILDYAQGTRPLVLNFGSCTUPPF
MARMSAFQRLVTKYQRDVDFLIYIEEAHPSDGWVTTDSPYVIPQHRSLED RVSAAR
VLQQGAPGCALVLDTMANSSSSAYGAYFERLYVIQSGTIMYQGGRGPDGYQVSEL
RTWLERYDEQLHGTRPRRL

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 Rat DIO3 extracellular domain protein (63-304aa(170:U→missing)) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. DIO3, also known as D3 or 5DIII or TXDI3, 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.