

Recombinant Rat DIO3 Protein (37-278 aa), His-tagged

Cat. No. DIO3-1603R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat DIO3 Protein (37-278 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
Species	Rat
Source	Yeast
ProteinLength	37-278 aa
Description	Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing prature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during bryological development.
Form	Tris-based buffer,50% glycerol
Molecular Mass	29.5 kDa
AA Sequence	DFLCIRKHFLRRRHPDHPEPEVELNSEGEEMPDPDDPPICVSDDNRLCTLASLKAVW HGQKLDFFKQAHEGGPAPNSEVVRPDGFQSQRILDYAQGTRPLVLNFGSCTUPPF MARMSAFQRLVTKYQRDVFLLIYIEEAHPSDGWVTTDSPYVIPQHRSLEDRVSAAR VLQQGAPGCALVLDTMANSSSSAYGAYFERLYVIQSGTIMYQGGRGPDGYQVSELR TWLERYDEQLHGTRPRRL

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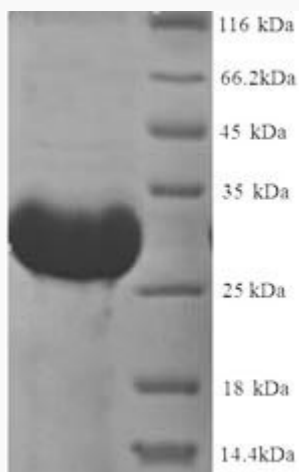
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Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
GENE INFORMATION	
Gene Name	Dio3 deiodinase, iodothyronine, type III [Rattus norvegicus]
Official Symbol	DIO3
Synonyms	DIO3; type 3 DI; type-III 5-deiodinase; 5DIII; DIOIII;
Gene ID	29475
mRNA Refseq	NM_017210
Protein Refseq	NP_058906
UniProt ID	P49897

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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