

## Thyroxine 5-deiodinase

Catalog No: #AP78884



Package Size: #AP78884-1 50ug #AP78884-2 100ug #AP78884-3 1mg

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## Description

Product Name	Thyroxine 5-deiodinase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	68-304AA
Other Names	ITDI3, TXDI3, 5DIII, DIOIII, Type 3 DI, Type III iodothyronine deiodinase
Accession No.	P55073 Gene name: DIO3
Uniprot	P55073
GeneID	1735;
Calculated MW	26.07
Tag Info	His
Formulation	50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole, 10% glycerol (pH 8.0)
Storage	Store at -20°C. (Avoid repeated freezing and thawing.) Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Responsible for the deiodination of T<sub>4</sub> (3,5,3',5'-tetraiodothyronine) into RT<sub>3</sub> (3,3',5'-triiodothyronine) and of T<sub>3</sub> (3,5,3'-triiodothyronine) into T<sub>2</sub> (3,3'-diiodothyronine). RT<sub>3</sub> and T<sub>2</sub> are inactive metabolites. May play a role in preventing premature 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 embryological development.

## References

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Note: This product is for in vitro research use only