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# **Recombinant human IYD protein**

Catalog Number: ATGP2592

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

24-214aa

#### UniProt No.

O6PHW0

#### **NCBI Accession No.**

NP 001158167

#### **Alternative Names**

iodotyrosine dehalogenase 1 isoform 3, C6orf71, DEHAL1, dJ422F24.1, TDH4

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

25.1 kDa (214aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M uREA, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

IYD is an enzyme that catalyzes the oxidative NADPH-dependent deiodination of mono- and diiodotyrosine, which are the halogenated byproducts of thyroid hormone production. The N-terminus of the protein functions as a membrane anchor. Mutations in this gene cause congenital hypothyroidism due to dyshormonogenesis type 4, which is also referred to as deiodinase deficiency, or iodotyrosine dehalogenase deficiency, or thyroid hormonogenesis type 4. Alternative splicing results in multiple transcript variants. Recombinant human IYD protein, fused to His-tag at N-terminus, was expressed in E. coli.



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# **Amino acid Sequence**

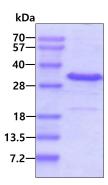
<MGSSHHHHHH SSGLVPRGSH MGS>DRSMEKK KGEPRTRAEA RPWVDEDLKD SSDLHQAEED ADEWQESEEN VEHIPFSHNH YPEKEMVKRS QEFYELLNKR RSVRFISNEQ VPMEVIDNVI RTAGTAPSGA HTEPWTFVVV KDPDVKHKIR KIIEEEEEIN YMKRMGHRWV TDLKKLRTNW IKEYLDTAPI LILIFKQVHG FAANGKKKVH YYNE

#### **General References**

Burniat, A, et al. (2012) J. Clin. Endocrinol. Metab. 97 (7), E1276-E1283 Belevich, V.K., et al. (2011) Biomed Khim 57 (2), 187-194

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

