

## Recombinant Full Length Human IYD Protein, GST-tagged

Cat. No. IYD-5853HF    Lot. No. (See product label)

### SPECIFICATION

**Product Overview**      Human IYD full-length ORF ( NP\_981932.1, 1 a.a. - 289 a.a.) recombinant protein with GST-tag at N-terminal.

**Species**                      Human

**Source**                        In Vitro Cell Free System

**ProteinLength**              289 amino acids

**Description**                This gene encodes 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 dysmorphogenesis 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. [provided by RefSeq]

**Molecular Mass**            59.8 kDa

**AA Sequence**                MYFLTPILVAILCILVWIFKNADRSMEKKKGEPRTRAEARPWVDEDLKDSSDLHQAE  
 EDADEWQESEENVEHIPFSHNHYPEKEMVKRSQEFYELLNKRRSVRFISNEQVPM  
 VIDNVIRTAGTAPSGAHTEPWTFVVKDPDVKHKIRKIIEEEEINYMKRMGHRWVTD  
 LKKLRTNWIKEYLDTAPILILIFKQVHGFAANGKKKVHYYNEISVSIACGILLAALQNAG  
 LVTVTTTPLNCGPRLRVLLGRPAHEKLLMLLPVGYPSKEATVPDLKRKPLDQIMVTV

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IYD iodotyrosine deiodinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	IYD
<b>Synonyms</b>	IYD; iodotyrosine deiodinase; TDH4; IYD-1; DEHAL1; C6orf71; iodotyrosine deiodinase 1; iodotyrosine dehalogenase 1; EC 1.21.1.1
<b>Gene ID</b>	389434
<b>mRNA Refseq</b>	NM_001164694
<b>Protein Refseq</b>	NP_001158166
<b>MIM</b>	612025
<b>UniProt ID</b>	Q6PHW0

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