

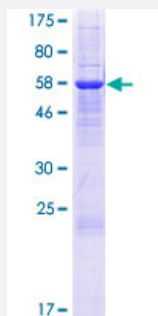
Full-Length

IYD (Human) Recombinant Protein (P01)

Catalog # H00389434-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human IYD full-length ORF (NP_981932.1, 1 a.a. - 289 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MYFLTPILVAILCILVWIFKNADRSMEKKKGEPRTAEARPWVDEDLKDSSDLHQAEEDADEWQ
ESEENVEHIPFSHNHYPEKEMVKRSQEFYELLNKRRSVRFISNEQVPMEVIDNVIRTAGTAPSGAH
TEPWTFVVVKDPDVKHKIRKIEEEEEINMKRMGHRWVTDLKKLRTNWIKEYLDTAPILILIFKQVHG
FAANGKKKVHYYNEISVSIACGILLAALQNAGLVTVTTPLNCGPRLRVLLGRPAHEKLLMLLPVGY
PSKEATVPDLKRKPLDQIMVTV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.8

Interspecies Antigen Sequence

Mouse (85); Rat (84)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — IYD

Entrez GeneID[389434](#)**GeneBank Accession#**[NM_203395.1](#)**Protein Accession#**[NP_981932.1](#)**Gene Name**

IYD

Gene Alias

C6orf71, DEHAL1, dJ422F24.1

Gene Description

iodotyrosine deiodinase

Gene Ontology[Hyperlink](#)**Gene Summary**

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 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. [provided by RefSeq]

Other Designations

iodotyrosine dehalogenase 1