Product information



IYD, 24-214aa

Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP2592

Full name: iodotyrosine dehalogenase 1 isoform 3 NCBI Accession No.: NP_001158167

Synonyms: C6orf71, DEHAL1, dJ422F24.1, TDH4

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*.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA,

10% glycerol

Molecular Weight: 25.1kDa (214aa)

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

(KDa) 70 57 40 28 18 13.5 8.5 15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSDRSMEKK KGEPRTRAEA RPWVDEDLKD SSDLHQAEED ADEWQESEEN VEHIPFSHNH YPEKEMVKRS QEFYELLNKR RSVRFISNEQ VPMEVIDNVI RTAGTAPSGA HTEPWTFVVV KDPDVKHKIR KIIEEEEEIN YMKRMGHRWV TDLKKLRTNWIKEYLDTAPI 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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