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## Product Data Sheet

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Product Name: IYD Human  
 Cat. No.: GP21833  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Iodotyrosine dehalogenase 1; IYD-1; Iodotyrosine Deiodinase; IYD; C6orf71; DEHAL1; iodotyrosine dehalogenase 1 isoform 3; dj422F24.1; TDH4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDRSMEKK KGEPRTRAEA RPWVDEDLKD SSDLHQAEED ADEWQESEEN VEHIPFSHNH YPEKEMVKRS QEFYELLNKR RSVRFISNEQ VPMEVIDNVI RTAGTAPSGA HTEPWTFVVV KDPDVKHKIR KIIEEEEIN YMKRMGHRWV TDLKKLRTNW IKEYLDTAPI LILIFKQVHG FAANGKKKVH YYNE.		
Formulation	IYD protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

### Introduction

IYD is an enzyme that catalyzes the oxidative NADPH-dependent deiodination of both mono- and diiodotyrosine although acts more efficiently on monoiodotyrosine. The N-terminus of Iodotyrosine Deiodinase, also known as IYD, plays a role as a membrane anchor. IYD acts during the hydrolysis of thyroglobulin to liberate iodide, which then reenter the hormone-producing pathways.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IYD Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 214 amino acids (24-214 a.a) and having a molecular mass of 25.1kDa. IYD is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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