

## 32-2475: IYD Recombinant Protein

**Alternative Name :** Iodotyrosine dehalogenase 1, IYD-1, Iodotyrosine Deiodinase, IYD, C6orf71, DEHAL1, iodotyrosine dehalogenase 1 isoform 3, dJ422F24.1, TDH4.

### Description

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

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** IYD protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MGSDRSMEKK KGEPRTRAEA RPWVDEDLKD SSDLHQAEED  
 ADEWQEESEN VEHIPFSNNH YPEKEMVKRS QEFYELLNKR RSVRFISNEQ VPMEVIDNVI RTAGTAPSGA  
 HTEPWTFVVV KDPDVKHKIR KIIEEEEIN YMKRMGHRWV TDLKKLRTNW IKEYLDTAPI LILIFKQVHG  
 FAANGKKKVH YYNE.

