

---

## Product Data Sheet

---

Product Name: IDI1 Human  
 Cat. No.: GP21822  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Isopentenyl-diphosphate Delta-isomerase 1; Isopentenyl pyrophosphate isomerase 1; IPP isomerase 1; IPP1; IDI1; IPP1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MMPEINTNHL DKQVQVQLLAE MCILIDENDN KIGAETKKNC HLNENIEKGL LHRAFSVFLF NTENKLLLQQ RSDAKITFPG CFTNTCCSHP LSNPAELEES DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHKAQ SDGIWGEHEI DYILLVRKNV TLNPDPNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI IAATFLFKWW DNLNHLNQFV DHEKIYRM.		
Formulation	The IDI1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.		

### Introduction

Isopentenyl-diphosphate isomerase 1 (IDI1) belongs to the IPP isomerase type I family and is involved in cholesterol biosynthesis. IDI1 is a peroxisomally-localized enzyme which catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which is the substrate for the sequential reaction that results in the synthesis of farnesyl diphosphate and, eventually, cholesterol. Peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy show a reduction in IPP isomerase activity.

### 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

IDI1 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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

chain containing 248 amino acids (1-228) and having a molecular mass of 28.6kDa.IDI1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**