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# Recombinant human IDI1 protein

Catalog Number: ATGP1277

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-228aa

#### **UniProt No.**

013907

#### **NCBI Accession No.**

AAH57827

#### **Alternative Names**

Isopentenyl-diphosphate isomerase 1, IPP1, IPP11

# PRODUCT SPECIFICATION

### **Molecular Weight**

28.6 kDa (248aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Isopentenyl-diphosphate isomerase 1, also known as IDI1, is a member of the IPP isomerase type I family and is involved in cholesterol biosynthesis. IDI1 is a peroxisomally-localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which is the substrates for the successive reaction that results in the synthesis of farnesyl diphosphate and, ultimately, cholesterol. Recombinant human IDI1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

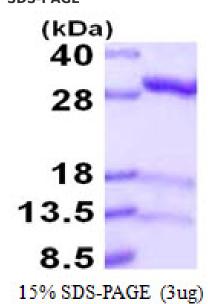
MGSSHHHHHH SSGLVPRGSH MMPEINTNHL DKQQVQLLAE MCILIDENDN KIGAETKKNC HLNENIEKGL LHRAFSVFLF NTENKLLLQQ RSDAKITFPG CFTNTCCSHP LSNPAELEES DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHYKAQ SDGIWGEHEI DYILLVRKNV TLNPDPNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI IAATFLFKWW DNLNHLNQFV DHEKIYRM

#### **General References**

Hahn F M., et al. (1996) Arch Biochem Biophys. 332:30-34. Zheng W., et al. (2007) J Mol Biol. 366:1447-1458.

# **DATA**

# SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

