

Recombinant human IDI1 protein

Catalog Number: ATGP1277

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-228aa

UniProt No.

Q13907

NCBI Accession No.

AAH57827

Alternative Names

Isopentenyl-diphosphate isomerase 1, IPP1, IPPI1

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

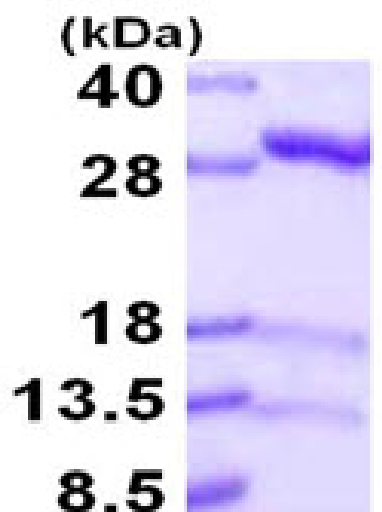
MGSSHHHHHH SSGLVPRGSH MMPEINTNHL DKQQVQLLAE MCILIDENDN KIGAETKKNC HLNENIEKGL LHRAFSVFLF
NTENKLLLQ RSDAKITFPG CFTNTCCSHP LSNPAELEES DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHKAQ
SDGIWGEHEI DYILLVRKNV TLNPDNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI IAATFLFKWW DNLNHLNQFV
DHEKIYRM

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.

15% SDS-PAGE (3ug)