

IDI1 Human

Description: IDI1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide 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.

Catalog #: ENPS-196

For research use only.

Synonyms: Isopentenyl-diphosphate Delta-isomerase 1, Isopentenyl pyrophosphate isomerase 1, IPP isomerase 1, IPP1, IDI1, IPP1.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MMPEINTNHL DKQQVQLLAE
MCILIDENDN KIGAETKKNK HLNENIEKGL LHRAFSVFLF NTENKLLQ RSDAKITFPG
CFTNTCCSHP LSNPAELEES DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHYKAQ
SDGIWGEHEI DYILLVRKNV TLNPDNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI
IAATFLFKWW DN

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The IDI1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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