PRODUCT INFORMATION

Expression system E.coli

Domain 1-227aa

UniProt No. Q9BXS1

NCBI Accession No. NP_150286

Alternative Names Isopentenyl-diphosphate delta-isomerase 2, IPPI2

PRODUCT SPECIFICATION

Molecular Weight 28.9 kDa (247aa) confirmed by MALDI-TOF

Concentration 1mg/ml (determined by Bradford assay)

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

Purity > 80% 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

IDI2, also known as isopentenyl-diphosphate delta-isomerase 2, belongs to the IPP isomerase type 1 family. IDI2 catalyzes the 1, 3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP). Recombinant human IDI2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSDINLDWVD RRQLQRLEEM LIVVDENDKV IGADTKRNCH LNENIEKGLL



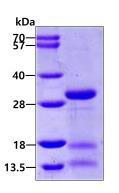
HRAFSVVLFN TKNRILIQQR SDTKVTFPGY FTDSCSSHPL YNPAELEEKD AIGVRRAAQR RLQAELGIPG EQISPEDIVF MTIYHHKAKS DRIWGEHEIC YLLLVRKNVT LNPDPSETKS ILYLSQEELW ELLEREARGE VKVTPWLRTI AERFLYRWWP HLDDVTPFVE LHKIHRV

General References

Clizbe D.B., et al. (2007) Biol Chem. 282:6668-6676 Ota T., et al. (2004) Genet. 36:40-45

DATA

SDS-PAGE



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

