

Recombinant e.coli idnk protein

Catalog Number: ATGP3239

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-187aa

UniProt No.

P39208

NCBI Accession No.

NP_418689

Alternative Names

D-gluconate kinase thermosensitive, D-gluconate kinase, thermosensitive, ECK4261, gntV, JW4225

PRODUCT SPECIFICATION

Molecular Weight

23.4 kDa (210aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 80unit/mg, in which one unit will convert 1.0 umole of D-gluconate to 6-phospho-D-gluconate per minute at pH 8.0 at 37C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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

D-gluconate kinase, thermosensitive, also known as idnk, D-gluconate kinase, thermosensitive, also known as idnk, is a 187 amino acid protein that belongs to the gluconokinase gntK/gntV family and catalyzes the conversion of ATP and D-gluconate to ADP and 6-phospho-D-gluconate. Recombinant E. coli idnk protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

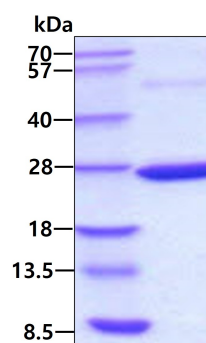
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QGIPLSDEDR LPWLERLNDL SYSLYKKNET GFIVCSSLKK QYRDILRKGS PHVHFLWLDG DYETILARMQ RRAGHFMPVA
LLKSQFEALE RPQADEQDIV RIDINHDIAN VTEQCRQAVL AIRQNRICAK EGSASDQRCE

General References

Coppo P., et al. (2006) J Haematol. 134: 171-179.
Zheng X., et al. (2006) BMC cancer. 7: 262.

DATA

SDS-PAGE



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