Recombinant E.coli D-gluconate kinase, His-tagged

Cat. No. idnk-610E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	idnk, 1-187aa, E.coli, His tag, E.coli
Species	E.coli
Source	E.coli
ProteinLength	1-187 a.a.
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. This protein is thought to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X, Y genotype. Recombinant E.coli idnk protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	23.4 kDa (210aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGESFI LMGVSGSGKT LIGSKVAALL SAKFIDGDDL HPAKNIDKMS QGIPLSDEDR LPWLERLNDA SYSLYKKNET GFIVCSSLKK QYRDILRKGS PHVHFLWLDG DYETILARMQ RRAGHFMPVA

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	LLKSQFEALE RPQADEQDIV RIDINHDIAN VTEQCRQAVL AIRQNRICAK EGSASDQRCE
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	idnK D-gluconate kinase [Escherichia coli str. K-12 substr. W3110]
Official Symbol	idnk
Synonyms	idnK; D-gluconate kinase; YP_492406.1; ECK4261:JW4225:b4268
Gene ID	12932386
Protein Refseq	YP_492406
UniProt ID	AP_004764
Pathway	Biosynthesis of secondary metabolites; L-idonate degradation; Pentose phosphate pathway

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