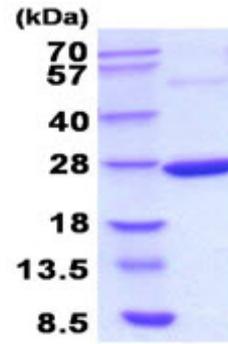


AR51994PU-N**E. coli Idnk (1-187, His-tag) - Purified**

Alternate names:	D-gluconate kinase, ECK4261, JW4225, gntV, thermosensitive
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (determined by bradford assay)
Background:	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.
Uniprot ID:	P39208
NCBI:	NP_418689
GeneID:	946066
Species:	E. coli
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
Description:	AA Sequence: MGSSHHHHHH SGLVPRGSH MGSAGESFI LMGVSGSGKT LIGSKVAALL SAKFIDGDDL HPAKNIDKMS QGIPLSDEDR LPWLERLNDL SYSLYKKNET GFIVCSSLKK QYRDILRKGS PHVHFLWLDG DYETILARMQ RRAGHFMPVA LLKSQFEALE RPQADEQDIV RIDINHDIAN VTEQCRQAVL AIRQNRICAK EGSASDQRCE Specific Activity: Specific activity is > 80 units/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. Molecular weight: 23.4 kDa (210aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Coppo P., et al. (2006) J Haematol. 134: 171-179. Zheng X., et al. (2006) BMC cancer. 7: 262.

Pictures:



15% SDS-PAGE (3ug)