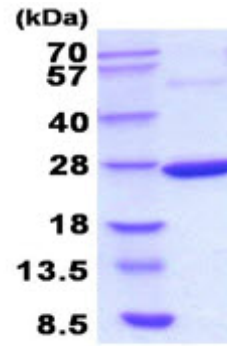


**AR51994PU-S****E. coli Idnk (1-187, His-tag) - Purified**

<b>Alternate names:</b>	D-gluconate kinase, ECK4261, JW4225, gntV, thermosensitive
<b>Quantity:</b>	20 µg
<b>Concentration:</b>	1.0 mg/ml (determined by bradford assay)
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P39208</a>
<b>NCBI:</b>	<a href="#">NP_418689</a>
<b>GeneID:</b>	<a href="#">946066</a>
<b>Species:</b>	E. coli
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
<b>Description:</b>	<b>AA Sequence:</b> MGSSHHHHHH SGLVPRGSH MGSMADESFI LMGVSGSGKT LIGSKVAALL SAKFIDGDDL HPAKNIDKMS QGIPLSDEDR LPWLERLNDL SYSLYKKNET GFIVCSSLKK QYRDILRKGS PHVHFLWLDG DYETILARMQ RRAGHFMPVA LLKSQFEALE RPQADEQDIV RIDINHDIAN VTEQCRQAVL AIRQNRICAK EGSASDQRCE <b>Specific Activity:</b> 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. <b>Molecular weight:</b> 23.4 kDa (210aa), confirmed by MALDI-TOF
<b>Storage:</b>	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.
<b>General Readings:</b>	Coppo P., et al. (2006) J Haematol. 134: 171-179. Zheng X., et al. (2006) BMC cancer. 7: 262.

Pictures:



15% SDS-PAGE (3ug)