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## Product Data Sheet

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Product Name: IDNK E.Coli  
 Cat. No.: GP22532  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thermosensitive gluconokinase; Gluconate kinase 1; idnK.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGESFI LMGVSGSGKT LIGSKVAALL SAKFIDGDDL HPAKNIDKMSQGIPLSDEDR LPWLERLNDA SYSLYKKNET GFIVCSSLKK QYRDILRKGS PHVHFLWLDG DYETILARMQRRAGHFMPVA LLKSQFEALE RPQADEQDIV RIDINHDIANVTEQCRQAVL AIRQNRICAK EGSASDQRCE.		
Formulation	IDNK protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Thermosensitive Gluconokinase, also known as IDNK is a 187 a.a protein which is a member of the gluconokinase gntK/gntV family. IDNK catalyzes the conversion of ATP and D-gluconate to ADP and 6-phospho-D-gluconate. In addition, IDNK is considered to take part in gender determination, deletion of the distal portion of 9p is able to lead to a development of male to female sex reversal, the phenotype of a female with a male X, Y genotype.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IDNK E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (1-187 a.a) and having a molecular mass of 23.4kDa. IDNK is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chromatographic techniques.

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