## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-309aa
UniProt No.
Q9H479
NCBI Accession No.
NP_071441.1

## Alternative Names

Fructosamine-3-kinase, Fructosamine 3 kinase

## PRODUCT SPECIFICATION

## Molecular Weight

37 kDa (332aa) confirmed by MALDI-TOF

## Concentration

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris-HCl buffer (pH 8.0) containing $0.15 \mathrm{M} \mathrm{NaCl}, 20 \%$ glycerol, 1 mM DTT

## Purity

$>85 \%$ by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

FN3K catalyzes the phosphorylation of fructosamines which may result in deglycation, the non-enzymatic reaction of glucose with primary amines followed by Amadori re-arrangement. Phosphorylation of fructosamines may initiate metabolism of the modified amine and lead to the de-glycation of fructoselysine and of glycated proteins. Recombinant human FN3K protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MEQLLRA ELRTATLRAF GGPGAGCISE GRAYDTDAGP VFVKVNRRTQ ARQMFEGEVA SLEALRSTGL VRVPRPMKVI DLPGGGAAFV MEHLKMKSLS SQASKLGEQM ADLHLYNQKL REKLKEEENT VGRRGEGAEP QYVDKFGFHT VTCCGFIPQV NEWQDDWPTF FARHRLQAQL DLIEKDYADR EARELWSRLQ VKIPDLFCGL EIVPALLHGD LWSGNVAEDD VGPIIYDPAS FYGHSEFELA IALMFGGFPR SFFTAYHRKI PKAPGFDQRL LLYQLFNYLN HWNHFGREYR SPSLGTMRRL LK

## General References

Conner JR, Beisswenger PJ, et al. (2005). Ann N Y Acad Sci. 1043:824-36.
Delpierre G, Veiga-da-Cunha M, et al. (2006). Diabetes Metab. 32(1):31-9.

DATA

SDS-PAGE


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

