

Recombinant human Fructosamine-3-kinase/FN3K protein

Catalog Number: ATGP1884

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

0.25mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C 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.

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Amino acid Sequence

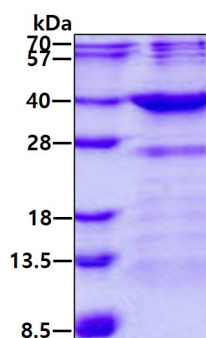
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VGRRGEGAEP QYVDKFGFHT VTCCGFIPQV NEWQDDWPTF FARHRLQAQL DLIEKDYADR EARELWSRLQ VKIPDLFCGL
EIVPALLHGD LWSGNVAEDD VGPIIYDPAS FYGHSEFELA IALMFGGFPR SFFTAYHRKI PKAPGFDQRL LLYQLFNLYN
HWNHFGREYR SPSLGTMRRLL LK

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.