

## FN3K Human

**Description:** FN3K Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 332 amino acids (1-309 a.a) and having a molecular mass of 37kDa. FN3K is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PKPS-056

For research use only.

**Synonyms:** Fructosamine-3-kinase, FN3K.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MGSMEQLLRA ELRTATLRAF  
GGPGAGCISE GRAYDTDAGP VFKVNRRTQ ARQMFEGEVA SLEALRSTGL VRVPRPMKVI  
DLPGGGAFFV MEHLKMKSL SQASKLGEQM ADLHLYNQKL REKLKEEENT VGRRGEGAEP  
QYVDKFGFHT VTCCGFIPQV NEWQDDWPTF FARHRLQAQL DLIEKDYADR EARELWSRLQ  
VKIPDLFCGL EI

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

FN3K protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Fructosamine 3 Kinase (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 instigates metabolism of the modified amine and brings about the de-glycation of fructoselysine and of glycated proteins. A high concentration of glucose may affect non-enzymatic oxidation of proteins by reaction of glucose and lysine residues (glycation). Fructosamines, the proteins altered in this way, are less active or functional.

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