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## Product Data Sheet

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Product Name: FN3K Human

Cat. No.: GP22517

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fructosamine-3-kinase; FN3K.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEQLLRA ELRTATLRAF GGPGAGCISE GRAYDTDAGP VFKVNRRTQ ARQMFEGEVA SLEALRSTGL VRVPRPMKVI DLPGGGAAFV MEHLKMKSL S QASKLGEQM ADLHLYNQKL REKLKEEENT VGRRGEGAEP QYVDKFGFHT VTCCGFIPQV NEWQDDWPTF FARHRLQAQL DLIEKDYADR EARELWSRLQ VKIPDLFCGL EIVPALLHGD LWSGNVAEDD VGPIIYDPAS FYGHSEFELA IALMFGGFPR SFFTAYHRKI PKAPGFDQRL LLYQLFNYLN HWNHFGREYR SPSLGTMRRL LK.		
Formulation	FN3K protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

**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.

**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**

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

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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.

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