

32-3022: FN3K Recombinant Protein

Alternative Name : Fructosamine-3-kinase, FN3K.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	FN3K protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSSLVPRGSH MGSMEQLLRA ELRTATLRAF GGPGAGCISE GRAYDTDAGP VFVKVNRRTQ ARQMFEGEVA SLEALRSTGL VRVPRPMKVI DLPGGGAFFV MEHLKMKSL SQASKLGEQM ADLHLYNQKL REKLKEEENT VGRREGAEP QYVDKFGFHT VTCCGFIPQV NEWQDDWPTF FARHRLQAQL DLIEKDYADR EARELWSRLQ VKIPDLFCGL EIVPALLHGD LWGSNVAEDD VGPIIDPAS FYGHSEFELA IALMFGGFPR SFFTAYHRKI PKAPGFDQRL LLYQLFNLYN HWNHFGREYR SPSLGMTMRL LK.