

32-3023: FN3KRP Recombinant Protein

Alternative Name : Ketosamine-3-kinase,Fructosamine-3-kinase-related protein,FN3K-RP,FN3K-related protein,FN3KRP,FN3KL.

Description

Source : Escherichia Coli. FN3KRP 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 36.8kDa.FN3KRP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Ketosamine-3-kinase (FN3KRP) catalyzes the phosphorylation of psicosamines and ribulosamines compared to the adjacent gene which encodes a highly analogous enzyme, fructosamine-3-kinase that has different substrate specificity. The activity of both enzymes may cause deglycation of proteins to reinstate their function. A high concentration of glucose can result in non-enzymatic oxidation of proteins by reaction of glucose and lysine residues (glycation). The proteins altered in this way, are less active or functional.

Product Info

Amount : 20 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : FN3KRP protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.
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 MGSMEELLRR ELGCSSVRAT GHSGGGCISQ GRSYDQDQGR
VFVKVNPKE ARRMEGEMA SLTAILKTNT VKVPKPIKVL DAPGGGSLV MEHMDMRHLS SHAAKGAQL
ADLHLDNKKL GEMRLKEAGT VGRGGGQEER PFVARFGFDV VTCCGYLPQVNDWQEDWVVF
YARQRIQPQM DMVEKESGDR EALQLWSALQ LKIPDLFRDL EIIPALLHGD LWGGNVAEDS SGPVIFDPAS
FYGHSEYELA IAGMFGGFSS SFYSAYHGKI PKAPGFKEKRL QLYQLFHLYN HWNHFGSGYR GSSLNIMRNL
VK.