
Product Data Sheet

Product Name: FN3KRP Human

Cat. No.: GP22518

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ketosamine-3-kinase; Fructosamine-3-kinase-related protein; FN3K-RP; FN3K-related protein; FN3KRP; FN3KL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEELLRR ELGCSSVRAT GHSGGGCISQ GRSYDTDQGR VFKVNPKE ARRMEGEMA SLTAILKTNT VKVPKPIKVL DAPGGGSLV MEHMDMRHLS SHAAKGAQL ADLHLDNKKL GEMRLKEAGT VGRGGGQEER PFVARFGFDV VTCCGYLPQVNDWQEDWVVF YARQRIQPQM DMVEKESGDR EALQLWSALQ LKIPDLFRDL EIIPALLHGD LWGGNVAEDS SGPVIFDPAS FYGHSEYELA IAGMFGGFSS SFYSAYHGKI PKAPGF EKRL QLYQLFHLYN HWNHFGSGYR GSSLNIMRNL VK.		
Formulation	FN3KRP protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

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.

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.

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

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Background

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.

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