

FN3KRP Human

Description: 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.

Catalog #: PKPS-058

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMEELLRR ELGCSSVRAT
GHSGGGCISQ GRSYDTDQGR VFVKVNPKE ARRMEGEMA SLTAILKTNT VKVPKPIKVL
DAPGGGSVLV MEHMDMRHLS SHAAKGAQL ADLHLDNKKL GEMRLKEAGT VGRGGGQEER
PFVARFGFDV VTCCGYLPQVNDWQEDWVVF YARQRIQPQM DMVEKESGDR EALQLWSALQ
LKIPDLFRDL EII

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

FN3KRP protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.

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:

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.

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