

Recombinant Human FN3KRP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FN3KRP-3186H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FN3KRP MS Standard C13 and N15-labeled recombinant protein (NP_078895) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	A high concentration of glucose can result in non-enzymatic oxidation of proteins by reaction of glucose and lysine residues (glycation). Proteins modified in this way are less active or functional. This gene encodes an enzyme which catalyzes the phosphorylation of psicosamines and ribulosamines compared to the neighboring gene which encodes a highly similar enzyme, fructosamine-3-kinase, which has different substrate specificity. The activity of both enzymes may result in deglycation of proteins to restore their function. Alternative splicing results in multiple transcript variants.
Molecular Mass	34.4 kDa
AA Sequence	MEELLRRELGCSSVRATGHSGGGCISQGRSYDTDQGRVFKVNPKAEARRMFEGE MASLTAILKTNTVKVPKPIKVLDAPGGGSVLVMEHMDMRHLSSHAAKLGAQLADLHL DNKKLGEMRLKEAGTVGRGGGQEERPFVARFGFDVVTCCGYLPQVNDWQEDWVV FYARQRIQPQMDMVEKESGDREALQLWSALQLKIPDLFRDLEIIPALLHGDWGGNV AEDSSGPVIFDPASFYGHSEYELAIAGMFGGFSSSFYSAYHGKIPKAPGFQKRLQLY

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	QLFHYNHWNHFGSGYRGSSLNIMRNLVKTRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FN3KRP fructosamine 3 kinase related protein [Homo sapiens (human)]
Official Symbol	FN3KRP
Synonyms	FN3KRP; fructosamine 3 kinase related protein; ketosamine-3-kinase; FLJ12171; FN3KL; FN3K-RP; FN3K-related protein; fructosamine-3-kinase-related protein;
Gene ID	79672
mRNA Refseq	NM_024619
Protein Refseq	NP_078895
MIM	611683

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UniProt ID

Q9HA64

SDS-PAGE

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