

Datasheet for ABIN7561417 FN3K Protein (AA 1-309) (His tag)



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Overview

Quantity:	1 mg
Target:	FN3K
Protein Characteristics:	AA 1-309
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FN3K protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Fn3k Protein expressed in mammalian cells.
Sequence:	<p>MEQLLRAQLH TTTLRAFGSS GGGCISEGYA YYTDSGPVFV KVNRRQTARQ MFEGEMASLE ALRNTGLVRV PKPMKVIDLP GGGAVFVMEH LKMKSLSQA SKLGEQMADL HLYNQKLREK SKTRQNTVGC GAEGAEPQGV TKFGFHTVTC CGFIPQVNEW QEDWPTFFTR HRLQAQLDLI EKDYADRETQ ELWSRLQVKI PDLFAGIEIV PALLHGDLS GNVAEDDQGP VIYDPASFYG HSEFELAIAS MFGGFPRSFF TAYHRKIPKA PGFDKRLLLY QLFNYLNHWN HFGREYRSPS LGVMRKLLR Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	FN3K
Alternative Name:	Fn3k (FN3K Products)
Background:	<p>Fructosamine-3-kinase (EC 2.7.1.171) (Protein-psicosamine 3-kinase FN3K) (Protein-ribulosamine 3-kinase FN3K) (EC 2.7.1.172),FUNCTION: Fructosamine-3-kinase involved in protein deglycation by mediating phosphorylation of fructoselysine residues on glycated proteins, to generate fructoselysine-3 phosphate (PubMed:11016445, PubMed:16819943). Fructoselysine-3 phosphate adducts are unstable and decompose under physiological conditions (By similarity). Involved in intracellular deglycation in erythrocytes and pancreatic islets (PubMed:16819943, PubMed:20009024). Involved in the response to oxidative stress by mediating deglycation of NFE2L2/NRF2, glycation impairing NFE2L2/NRF2 function (PubMed:31398338). Also able to phosphorylate psicosamines and ribulosamines (By similarity). {ECO:0000250 UniProtKB:Q9H479, ECO:0000269 PubMed:11016445, ECO:0000269 PubMed:16819943, ECO:0000269 PubMed:20009024, ECO:0000269 PubMed:31398338}.</p>
Molecular Weight:	35.0 kDa
UniProt:	Q9ER35

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months