Recombinant Full Length Human TKFC Protein, C-Flag-tagged

Cat. No. TKFC-1641HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TKFC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the family of dihydroxyacetone kinases, which have a protein structure distinct from other kinases. The product of this gene phosphorylates dihydroxyacetone, and also catalyzes the formation of riboflavin 4',5'-phosphate (aka cyclin FMN) from FAD. Several alternatively spliced transcript variants have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	58.8 kDa
AA Sequence	MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLDSLKGRVALLSGGG SGHEPAHAGFIGKG MLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGD RLNFGLAREQARAEGIPVEMVVIGDD SAFTVLKKAGRRGLCGTVLIHKVAGALAEAG VGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELS ADEVELGLGIHGEAGVR RIKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVVMMVNNLGGLSFLELGII ADAT VRSLEGRGVKIARALVGTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAAWPNVAAV SITGRKRS RVAPAEPQEAPDSTAAGGSASKRMALVLERVCSTLLGLEEHLNALDRA AGDGDCGTTHSRAARAIQEWLK EGPPPASPAQLLSKLSVLLLEKMGGSSGALYGLF

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	LTAAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAP GDRTMLDSLWAAGQELQA WKSPGADLLQVLTKAVKSAEAAAEATKNMEAGAGRASYISSARLEQPDPGAV AAAAILRAILEVLQSSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycerolipid metabolism, Metabolic pathways, RIG-I-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	TKFC triokinase and FMN cyclase [Homo sapiens (human)]
Official Symbol	TKFC
Synonyms	DAK; NET45; TKFCD
Gene ID	26007

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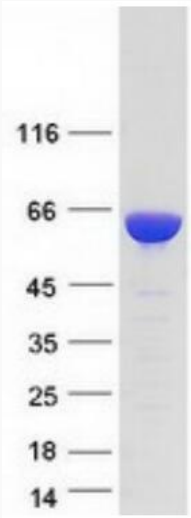
mRNA Refseq	NM_015533.4
Protein Refseq	NP_056348.2
MIM	615844
UniProt ID	Q3LXA3



Coomassie blue staining of purified TKFC protein.

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