

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

Cat. No. TKFC-3462H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DAK MS Standard C13 and N15-labeled recombinant protein (NP_056348) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	58.9 kDa
AA Sequence	MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLSLKGRVALLSGGG SGHEPAHAGFIGKGMLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTG RLNFGlareQARAEGIPVEMVIGDDSAFTVLKKAGRRGLCGTVLIHKVAGALAEAG VGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELSADEVELGLGIHGEAGVRR IKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVMMVNLLGGLSFLELGIIADATV RSLEGRGVKIARALVGTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAPNVAAVSI TGRKRSRVAPAEPQEAPDSTAAGGSASKRMALVLERVCSTLLGLEEHLNALDRAAG DGDCGTTHSRAARAIQEWLKEGPPPASPAQLLSKLSVLLLEKMGGSSGALYGLFLT

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AAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWK
SPGADLLQVLTKAVKSAEAAAEEATKNMEAGAGRASYISSARLEQPDPGAVAAAAAILR
AILEVLQSSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 TKFC triokinase and FMN cyclase [[Homo sapiens \(human\)](#)]

Official Symbol [TKFC](#)

Synonyms TKFC; triokinase and FMN cyclase; DAK; NET45; TKFCD; triokinase/FMN cyclase; ATP-dependent dihydroxyacetone kinase; DHA kinase; Dha kinase/FMN cyclase; FAD-AMP lyase cyclic FMN forming; FAD-AMP lyase cyclizing; bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing); dihydroxyacetone kinase 2 homolog; glycerone kinase; testis tissue sperm-binding protein Li 84P; EC 2.7.1.28; EC 2.7.1.29; EC 4.6.1.15

Gene ID [26007](#)

mRNA Refseq [NM_015533](#)

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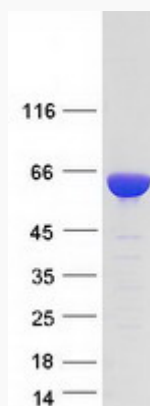
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Protein Refseq NP_056348

MIM 615844

UniProt ID Q3LXA3

SDS-PAGE



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