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	MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLDSLKGRVALLSGGG SGHEPAHAGFIGKGMLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGD RLNFGLAREQARAEGIPVEMVVIGDDSAFTVLKKAGRRGLCGTVLIHKVAGALAEAG VGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELSADEVELGLGIHGEAGVRR IKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVVMMVNNLGGLSFLELGIIADATV RSLEGRGVKIARALVGTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAAWPNVAAVSI TGRKRSRVAPAEPQEAPDSTAAGGSASKRMALVLERVCSTLLGLEEHLNALDRAAG DGDCGTTHSRAARAIQEWLKEGPPPASPAQLLSKLSVLLLEKMGGSSGALYGLFLT

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	AAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWK SPGADLLQVLTKAVKSAEAAAEATKNMEAGAGRASYISSARLEQPDPGAVAAAAILR 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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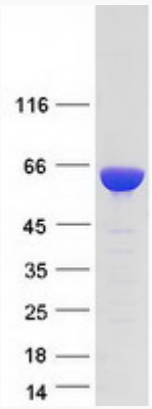
Protein Refseq	NP_056348
MIM	615844
UniProt ID	Q3LXA3
SDS-PAGE	

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