

# Recombinant Human DAK cell lysate

**Cat. No.** DAK-2112HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>    | 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 identified, but the full-length nature of only one has been determined. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DAK dihydroxyacetone kinase 2 homolog (S. cerevisiae) [ Homo sapiens ]                                                                                                                                                                   |
| <b>Official Symbol</b> | DAK                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | DAK; dihydroxyacetone kinase 2 homolog (S. cerevisiae); dihydroxyacetone kinase 2 homolog (yeast); bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing); DKFZP586B1621; NET45; DHA kinase; glycerone kinase; Dha |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | kinase/FMN cyclase; FAD-AMP lyase cyclizing; FAD-AMP lyase cyclic FMN forming; ATP-dependent dihydroxyacetone kinase; MGC5621; DKFZp586B1621;                                                                                                                                                                                                                                       |
| <b>Gene ID</b>             | <a href="#">26007</a>                                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | <a href="#">NM_015533</a>                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | <a href="#">NP_056348</a>                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>          | <a href="#">Q3LXA3</a>                                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 11q12.2                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; RIG-I-like receptor signaling pathway, organism-specific biosystem; RIG-I-like receptor signaling pathway, conserved biosystem; |
| <b>Function</b>            | ATP binding; FAD-AMP lyase (cyclizing) activity; glycerone kinase activity; lyase activity; metal ion binding; nucleotide binding; transferase activity;                                                                                                                                                                                                                            |