

Recombinant Human OGDH protein, His-tagged

Cat. No. OGDH-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OGDH(Ala256~Lys582) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala256~Lys582
Description	This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex. This complex catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO ₂ during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. A congenital deficiency in 2-oxoglutarate dehydrogenase activity is believed to lead to hypotonia, metabolic acidosis, and hyperlactatemia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	41.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 90%

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	OGDH oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) [Homo sapiens]
Official Symbol	OGDH
Synonyms	OGDH; oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide); 2-oxoglutarate dehydrogenase, mitochondrial; E1k; OGDC-E1; oxoglutarate decarboxylase; 2-oxoglutarate dehydrogenase complex component E1; oxoglutarate dehydrogenase (succinyl-transferring); OGDC; AKGDH;
Gene ID	4967
mRNA Refseq	NM_001003941
Protein Refseq	NP_001003941
MIM	613022

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

UniProt ID	Q02218
Chromosome Location	7p13-p11.2
Pathway	2-ketoglutarate dehydrogenase complex, organism-specific biosystem; 2-ketoglutarate dehydrogenase complex, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate => oxaloacetate, organism-specific biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate =>
Function	oxidoreductase activity; oxoglutarate dehydrogenase (NAD+) activity; oxoglutarate dehydrogenase (succinyl-transferring) activity; oxoglutarate dehydrogenase (succinyl-transferring) activity; thiamine pyrophosphate binding;