

Recombinant Human OGDH Protein (41-427 aa), His-SUMO-tagged

Cat. No. OGDH-699H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human OGDH Protein (41-427 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.

Species Human

Source E.coli

ProteinLength 41-427 aa

Description The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO₂. It contains multiple copies of three enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3).

Form Tris-based buffer, 50% glycerol

Molecular Mass 59.1 kDa

AA Sequence SAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKSWDIFFRNTNAGAPPGTAYQSP
LPLSRGSLAAVAHAQSLVEAQPNDKLVEDHLAVQSLIRAYQIRGHHVAQLDPLGILD
ADLDSSVPADIISSTDKLGFYGLDESDLDKVFHLPPTTTFIGGQESALPLREIIRLEMA
YCQHIGVEFMFINDLEQCQWIRQKFETPGIMQFTNEEKRTLLARLVRSTRFEEFLQR
KWSSEKRFGLGCEVLIPALKTIIDKSSSENGVDYVIMGMPHRGRLNVLANVIRKELEQ

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IFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTDNRNITLSLVANPSHLEAADPVVM
GKTKAEQFYCGDTEGKKVPRRERRARQIVKAPCSSMEFRSPT

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name OGDH oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) [Homo sapiens]

Official Symbol OGDH

Synonyms OGDH; E1k; OGDC-E1; OGDC; AKGDH;

Gene ID 4967

mRNA Refseq NM_001003941

Protein Refseq NP_001003941

MIM 613022

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UniProt ID

Q02218



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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