

OGDC-E Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms:	Kiaa4192;2-oxoglutarate dehydrogenase, mitochondrial;OGDH-E1;E1o;2-oxoglutarate dehydrogenase complex component E1;Thiamine diphosphate (ThDP)-dependent 2-oxoglutarate dehydrogenase;Alpha-ketoglutarate dehydrogenase (Alpha-KGDH-E1);OGDC-E1;Ogdh
Protein Construction:	695-1023 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q60597
Molecular Weight:	50.8 kDa (predicted)
AA Sequence:	VDKRTCIPMNLWPNQAPYTVCNSSLSEYGVLGFEFGFAMASPINALVLWEAQFGDFNNMAQCIIDQFICPG QAKWVRQNGIVLLLPHGMEGMGPEHSSARPERFLQMCNDDPDVLPDLQEENFDINQLYDCNWIVVNCSTP GNFFHVLRRQILLPFRKPLIVFTPksLLRHPEARTSFDEMLPGTHFQRVIPENGPAAQDPHKVKRLLFCTGKVY YDLTRERKARNMEEVAITRIEQLSPFPFDLLLKEAQKYPNAELAWCQEEHKNQGYDYVKPRLRTTIDRAKP VWYAGRDPAAAPATGNKKTHLTELQRFLDTAFDLDAFKKFS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

2-oxoglutarate dehydrogenase (E1) component of the 2-oxoglutarate dehydrogenase complex (OGDHC), which mediates the decarboxylation of alpha-ketoglutarate. The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO₂. The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion. A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones: associates with KAT2A on chromatin and provides succinyl-CoA to histone succinyltransferase KAT2A.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481