Recombinant Human GLDC Protein, His-tagged

Cat. No. GLDC-492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLDC(Thr81~Asp268) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr81~Asp268
Description	Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the P protein, which binds to glycine and enables the methylamine group from glycine to be transferred to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH).
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	22.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 92%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
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	GLDC glycine dehydrogenase (decarboxylating) [Homo sapiens]
Official Symbol	GLDC
Synonyms	GLDC; glycine dehydrogenase (decarboxylating); glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P); glycine dehydrogenase [decarboxylating], mitochondrial; GCSP; glycine cleavage system protein P; glycine decarboxylase; NKH; glycine decarboxylase P-protein; glycine cleavage system P protein; GCE; HYGN1; MGC138198; MGC138200;
Gene ID	2731
mRNA Refseq	NM_000170
Protein Refseq	NP_000161

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MIM	238300
UniProt ID	P23378

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