

Recombinant Human GLDC, His-tagged

Cat. No. GLDC-13294H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLDC protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	675-1020a.a.
Description	The protein encoded by this gene is part of the SMN complex, which is necessary for spliceosomal snRNP assembly in the cytoplasm and pre-mRNA splicing in the nucleus. The encoded protein binds to both SMN1 and the GEMIN6/GEMIN7 heterodimer, mediating their interaction. This protein is found in nuclear Gemini of Cajal bodies (gems) and in the cytoplasm. Three transcript variants encoding the same protein have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name GLDC glycine dehydrogenase (decarboxylating) [Homo sapiens]

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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; HYG1; MGC138198; MGC138200;
Gene ID	2731
mRNA Refseq	NM_000170
Protein Refseq	NP_000161
MIM	238300
UniProt ID	P23378
Chromosome Location	9p22
Pathway	Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; glycine cleavage complex, organism-specific biosystem;
Function	electron carrier activity; glycine dehydrogenase (decarboxylating) activity; lyase activity; oxidoreductase activity; pyridoxal phosphate binding;

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