

Recombinant Human GNAO1, GST-tagged

Cat. No. GNAO1-13349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GNAO1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-302a.a.
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).
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 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	GNAO1 guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [Homo sapiens]
Official Symbol	GNAO1
Synonyms	GNAO1; guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O; guanine nucleotide-binding protein G(o) subunit alpha; G ALPHA o; guanine nucleotide binding protein, alpha activating polypeptide O; GNAO; G-ALPHA-o; DKFZp686O0962;
Gene ID	2775
mRNA Refseq	NM_020988
Protein Refseq	NP_066268
MIM	139311
UniProt ID	P09471
Chromosome Location	16q13
Pathway	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Cholinergic synapse, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G Protein Signaling Pathways, organism-specific biosystem;
Function	G-protein beta/gamma-subunit complex binding; G-protein coupled serotonin receptor

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binding; GTP binding; GTPase activity; guanyl nucleotide binding; metal ion binding;
mu-type opioid receptor binding; nucleotide binding; phosphatidylinositol
phospholipase

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