

## 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<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	GNAO1 guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [ Homo sapiens ]
<b>Official Symbol</b>	GNAO1
<b>Synonyms</b>	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;
<b>Gene ID</b>	2775
<b>mRNA Refseq</b>	NM_020988
<b>Protein Refseq</b>	NP_066268
<b>MIM</b>	139311
<b>UniProt ID</b>	P09471
<b>Chromosome Location</b>	16q13
<b>Pathway</b>	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;
<b>Function</b>	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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