

Recombinant Human GIPC1, His-tagged

Cat. No. GIPC1-13265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GIPC1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-333a.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 H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH). Two transcript variants, one protein-coding and the other probably not protein-coding, have been found for this gene. Also, several transcribed and non-transcribed pseudogenes of this gene exist throughout the genome.
Source	E.coli
Species	Human
Tag	His

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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	GIPC1 GIPC PDZ domain containing family, member 1 [Homo sapiens]
Official Symbol	GIPC1
Synonyms	GIPC1; GIPC PDZ domain containing family, member 1; C19orf3, chromosome 19 open reading frame 3 , regulator of G protein signalling 19 interacting protein 1 , RGS19IP1; PDZ domain-containing protein GIPC1; GIPC; GLUT1CBP; Hs.6454; NIP; SEMCAP; SYNECTIN; TIP 2; tax interaction protein 2; RGS19-interacting protein 1; RGS-GAIP-interacting protein; GLUT1 C-terminal binding protein; GAIP C-terminus-interacting protein; IGF-1 receptor interacting protein 1; regulator of G-protein signalling 19 interacting protein 1; IIP-1; TIP-2; C19orf3; RGS19IP1; SYNECTIN; MGC3774; MGC15889;
Gene ID	10755
mRNA Refseq	NM_005716
Protein Refseq	NP_005707
MIM	605072
UniProt ID	O14908

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Chromosome Location	19p13.1
Pathway	Neurotrophic factor-mediated Trk receptor signaling, organism-specific biosystem; Syndecan-4-mediated signaling events, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	PDZ domain binding; actin binding; myosin binding; protein binding; protein homodimerization activity; receptor binding;

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