

Recombinant Human GNG5, GST-tagged

Cat. No. GNG5-13365H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GNG5 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-68a.a.

Description This gene encodes glutamate dehydrogenase protein; a mitochondrial matrix enzyme that catalyzes the oxidative deamination of glutamate to alpha-ketoglutarate and ammonia. This enzyme has an important role in regulating amino acid induced insulin secretion and activating mutations in this gene are a common cause of congenital hyperinsulinism. This enzyme is allosterically activated by ADP and inhibited by GTP and ATP. The related glutamate dehydrogenase 2 gene on the human X-chromosome originated from this gene via retrotransposition and encodes a soluble form of glutamate dehydrogenase. Multiple pseudogenes of this gene are present in humans.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	GNG5 guanine nucleotide binding protein (G protein), gamma 5 [Homo sapiens]
Official Symbol	GNG5
Synonyms	GNG5; guanine nucleotide binding protein (G protein), gamma 5; guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-5; FLJ92393;
Gene ID	2787
mRNA Refseq	NM_005274
Protein Refseq	NP_005265
MIM	600874
UniProt ID	P63218
Chromosome Location	1p22
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Aquaporin-mediated transport, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;
Function	GTPase activity; signal transducer activity;

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