

Recombinant Human GNB4, GST-tagged

Cat. No. GNB4-13357H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GNB4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-340a.a.

Description This gene encodes a member of the glutaredoxin family. The encoded protein is a cytoplasmic enzyme catalyzing the reversible reduction of glutathione-protein mixed disulfides. This enzyme highly contributes to the antioxidant defense system. It is crucial for several signalling pathways by controlling the S-glutathionylation status of signalling mediators. It is involved in beta-amyloid toxicity and Alzheimers disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified.

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.

GENE INFORMATION

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Gene Name	GNB4 guanine nucleotide binding protein (G protein), beta polypeptide 4 [Homo sapiens]
Official Symbol	GNB4
Synonyms	GNB4; guanine nucleotide binding protein (G protein), beta polypeptide 4; guanine nucleotide-binding protein subunit beta-4; transducin beta chain 4; G protein beta-4 subunit; guanine nucleotide binding protein beta subunit 4;
Gene ID	59345
mRNA Refseq	NM_021629
Protein Refseq	NP_067642
MIM	610863
UniProt ID	Q9HAV0
Chromosome Location	3q27.1
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, 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; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;
Function	signal transducer activity;

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