Recombinant Human guanine nucleotide binding protein (G protein), gamma 4, His-tagged

Cat. No. GNG4-422H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNG4, 1-72aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-72 a.a.
Description	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4 precursor, also known as GNG4, is members of a multigene family and are implicated in determining the specificity of receptor-G protein interaction. In mammals, G protein alpha, beta and gamma polypeptides are encoded by at least 16, 4 and 7 genes, respectively. GNG4 is becoming increasingly clear that different G protein complexes expressed in different tissues carry structurally distinct members of the gamma as well as the alpha and beta subunits and that preferential association between members of subunit families increase G protein functional diversity. Recombinant human GNG4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	10.4 kDa (95aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKEGMSN NSTTSISQAR KAVEQLKMEA CMDRVKVSQA AADLLAYCEA HVREDPLIIP VPASENPFRE KKFFC

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Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	GNG4 guanine nucleotide binding protein (G protein), gamma 4 [Homo sapiens]
Official Symbol	GNG4
Synonyms	GNG4; guanine nucleotide binding protein (G protein), gamma 4; guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4; guanine nucleotide binding protein 4; FLJ23803; FLJ34187; DKFZp547K1018;
Gene ID	2786
mRNA Refseq	NM_001098721
Protein Refseq	NP_001092191
MIM	604388
UniProt ID	P50150
Chromosome Location	1q42.3
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of G

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	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	signal transducer activity;

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