

Datasheet for ABIN7317214 **GNGT1 Protein (His tag)**



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Overview

Quantity:	100 µg
Target:	GNGT1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNGT1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GNGT1/GNG1 Protein (His Tag)
Sequence:	Pro 2-Cys 71
Characteristics:	A DNA sequence encoding the mature foem of human GNGT1 (P63211) (Pro 2-Cys 71) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	GNGT1
Alternative Name:	GNGT1/GNG1 (GNGT1 Products)
Background:	Background: GNGT1 is a subunit of of transducin. Heterotrimeric G proteins consist of alpha, beta, and gamma subunits. They are membrane bound GTPases that are linked to 7-TM receptors. They function as signal transducers for the 7-transmembrane-helix G protein-coupled receptors. They are involved as a modulator or transducer in various transmembrane

Target Details

signaling systems. G proteins are bound to GDP in the 'off' state. GNGT1 is the gamma subunit of transducin. Ligand-receptor binding results in detachment of the G protein, switching it to an 'on' state and permitting G α activation of second messenger signalling cascades. There are several types of G α proteins, in addition, some G $\beta\gamma$ subunits have active functions. G $\beta\gamma$ coupled to H1 receptors can activate PLA2 and G $\beta\gamma$ coupled to M1 receptors can activate KIR channels. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

Synonym: GNG1

Molecular Weight:	9.9kDa
UniProt:	P63211
Pathways:	Myometrial Relaxation and Contraction , Regulation of G-Protein Coupled Receptor Protein Signaling , Phototransduction

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.