

# Recombinant Human GNGT1/GNG1 Protein (His Tag)



Catalog Number: PKSH030582

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

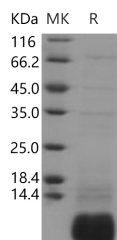
## Description

<b>Synonyms</b>	GNG1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Pro 2-Cys 71
<b>Accession</b>	P63211
<b>Calculated Molecular Weight</b>	9.9 kDa
<b>Observed molecular weight</b>	9.0 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

GNGT1 is a subunit 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 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 Galpha activation of second messenger signalling cascades. There are several types of Galpha proteins; in addition, some Gbetagamma subunits have active functions. Gbetagamma coupled to H1 receptors can activate PLA2 and Gbetagamma coupled to M1 receptors can activate KIR channels. The beta and gamma chains are required for the GTPase activity, for

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replacement of GDP by GTP, and for G protein-effector interaction.

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