

Recombinant Rat GNAT3 Protein

Cat. No. GNAT3-720R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat GNAT3 protein (X65747) was co-expressed with G-protein $\beta 1\gamma 2$ -subunits in Sf9 insect cells.
Species	Rat
Source	Insect Cells
Description	Gustducin is a transducin-like heterotrimeric guanine nucleotide-binding protein (G-protein) expressed in taste receptor cells (TRCs) of the tongue. It is also expressed in the stomach and intestine in brush cells that are scattered throughout the surface epithelium of the gut and share structural features of taste receptor cells of the tongue. Gustducin was demonstrated to be myristoylated and was also palmitoylated in insect cells. Biochemical and genetic studies have implicated gustducin-α as a key component in the transduction of both bitter and sweet taste. Gustducin mediates two responses, i.e. a decrease in cyclic nucleotide monophosphates via activation of phosphodiesterase 1A by gustducin-α and activation of phospholipase C-β by released G$\beta\gamma$ subunits. Gustducin-α has close structural similarity with the visual G-protein, transducin-α. Gustducin-α reconstituted with the G-protein subunits G$\beta 1\gamma 2$ was prepared from Sf9 cells coinfecting with gustducin-α and G$\beta 1\gamma 2$-encoding baculoviruses.
Form	75 mM Tris-HCl pH 7.4, 12.5 mM MgCl ₂ and 1 mM EDTA
Molecular Mass	40 + 36 kDa

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Storage Store at -80 centigrade, avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name [Gnat3 guanine nucleotide binding protein, alpha transducing 3 \[Rattus norvegicus \]](#)

Official Symbol [GNAT3](#)

Synonyms GDCA

Gene ID [346562](#)

mRNA Refseq [NM_001102386.1](#)

Protein Refseq [NP_001095856.1](#)

MIM [139395](#)

UniProt ID [A8MTJ3](#)

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