

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 MgCl₂ and 1 mM EDTA

Molecular Mass 40 + 36 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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