9051 Mira Mesa Blvd, #910094
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GNAI1 Human

Guanine Nucleotide Binding Protein Alpha Inhibiting Activity 1 Human Recombinant RCP0934

Product Overview

Name	GNAI1 Human
Description	
Guanine Nucleotide Binding Protein Alpha Inhibiting Activity 1 Human Recombinant	
Accession (Primary)	P63096
Synonyms	
Guanine nucleotide-binding protein G(i) subunit alpha-1, Adenylate cyclase-inhibiting G alpha protein, GNAI1, Gi.	
Introduction	
Guanine nucleotide binding proteins are heterotrimeric signal-transducing molecules comprising alpha, beta, and gamma subunits. GNAI1 represents the alpha subunit of an inhibitory complex. Guanine nucleotide-binding protein G(i) subunit alpha (GNAI1) functions to transmit information from cell surface receptors to intracellular effectors. GNAI1 binds guanine nucleotide, can hydrolyze GTP, and can interact with other proteins. GNAI1 is part of a complex that responds to beta-adrenergic signals by inhibiting adenylate cyclase. In addition, GNAI1 functions to open atrial potassium channels.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
GNAI1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MGCTLSA EDKAAVERSK MIDRNLREDG EKAAREVKLL LLGAGESGKS TIVKQMKIIH EAGYSEEECK QYKAVVYSNT IQSIIAIIRA MGRLKIDFGD SARADDARQL FVLAGAAEEG FMTAELAGVI KRLWKDSGVQ ACFNRSREYQ LNDSAAYYLN DLDRIAQPNY IPTQQDVLRT RVKTTGIVET	

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HFTFKDLHFK MFDVGGQRSE RKKWIHCFEG VTAIIFCVAL SDYDLVLAED EEMNRMHESM KLFDSICNNK WFTDTSIILF LNKKDLFEEK IKKSPLTICY PEYAGSNTYE EAAAYIQCQF EDLNKRKDTK EIYTHFTCAT DTKNVQFVFD AVTDVIIKNN LKDCGLF.

Precautions

GNAI1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P63096)