
Product Data Sheet

Product Name: GNAI1 Human
 Cat. No.: GP23570
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanine nucleotide-binding protein G(i) subunit alpha-1; Adenylate cyclase-inhibiting G alpha protein; GNAI1; Gi.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGCTLSA EDKAAVERSK MIDRNLREDG EKAAREVKLL LLGAGESGKS TIVKQMKIIH EAGYSEEECK QYKAVVYSNT IQSIIAIRA MGRLKIDFGD SARADDARQL FVLGAAEEG FMTAELAGVI KRLWKDSGVQ ACFNRSREYQ LNDSAAYYLN DLDRIAQPNY IPTQQDVLRT RVKTTGIVET HFTFKDLHFK MFDVGGQRSE RKKWIHCFFEG VTAIIFCVL SDYDLVLAED EEMNRMHESM KLFDSICNNK WFTDTSIILF LNKKDLFECK IKKSPLTICY PEYAGSNTYE EAAAYIQCF EDLNKRKDTK EIYTHFTCAT DTKNVQFVFD AVTDVIKNN LKDCGLF.		
Formulation	GNAI1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

GNAI1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 377 amino acids (1-354 a.a.) and having a molecular mass of 42.7kDa. GNAI1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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