
Product Data Sheet

Product Name: GNAI2 Human
 Cat. No.: GP23571
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanine Nucleotide Binding Protein (G Protein); Alpha Inhibiting Activity Polypeptide 2; GTP-Binding Regulatory Protein Gi Alpha-2 Chain; Guanine Nucleotide-Binding Protein G(I); Alpha-2 Subunit; Adenylate Cyclase-Inhibiting G Alpha Protein; GNAI2B; H_LUCA16.1; GIP.		
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGCTVSAEDK AAAERSKMID KNLREDGEKA AREVKLLLLG AGESGKSTIV KQMKIIHEDG YSEEECRQYR AVVYSNTIQS IMAIVKAMGN LQIDFADPSR ADDARQLFAL SCTAEEQGV L PDDL S G V I R R LWADHGVQAC FGRSREYQLN DSAAYYLNDL ERIAQSDYIP TQQDVL RTRV KTTGIVETHF TFKDLHFKMF DVGGQRSEK KWIHCFEGVT AIIFCV ALSA YDLVLA EDEE MNRMHESMKL FDSICNNKWF TDTSIILFLN KKDLFEEKIT HSPLTICFPE YTGANKYDEA ASYIQSKFED LNKRKDTKEI YTHFTCATDT KNVQVFDAV TDV I I K N N L K DCGLF.		
Formulation	The GNAI2 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

Introduction

GNAI2 is an alpha subunit of guanine nucleotide binding proteins (G proteins) and holds a guanine nucleotide binding site. GNAI2 takes part in the hormonal regulation of adenylate cyclase. GNAI2 has various transcript variants encoding different isoforms yet only two full-length isoforms were identified up to date.

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.

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

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Background

GNAI2 Human Recombinant produced in E. coli is a single polypeptide chain containing 375 amino acids (1-355) and having a molecular mass of 42.0 kDa. GNAI2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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