
Product Data Sheet

Product Name: GNAI3 Human
 Cat. No.: GP23572
 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 3; G(i) alpha-3; 87U6.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMGCTLSA EDKAAVERSK MIDRNLREDG EKAAKEVKLL LLGAGESGKS TIVKQMKIIH EDGYSEDECK QYKVVVYSNT IQSIIAIRA MGRLKIDFGE AARADDARQL FVLGSAEEG VMTPELAGVI KRLWRDGGVQ ACFRSRSREYQ LNDSASYLNL DLDRISQSNY IPTQQDVLRT RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHCFCG VTAIIFCVL SDYDLVLAED EEMNRMHESM KLFDSICNNK WFTETSILF LNKKDLFEK IKRSPLTICY PEYTGSNTE EAAAYIQCQF EDLNRKDTK EIYTHFTCAT DTKNVQFVFD AVTDVIKNN LKECGLY		
Formulation	The GNAI3 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 2mM DTT and 20% glycerol.		

Introduction

GNAI3 is a member of the G-alpha family and G (i/o/t/z) subfamily which act as modulators or transducers in several transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K⁺ channels. The active GTP-bound form inhibits the connotation of RGS14 with centrosomes and is essential for the translocation of RGS14 from the cytoplasm to the plasma membrane. GNAI3 takes part in cell division and is known to cooperate with RIC8A, S1PR1, RGS5, RGS10, RGS12, RGS14, RGS16, RGS18, and RGS19.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GNAI3 Human Recombinant produced in E. coli is a single polypeptide chain containing 377 amino acids (1-354) and having a molecular mass of 43.0kDa. GNAI3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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