Guanine Nucleotide-Binding Protein G (I) Subunit Alpha-1 (GNAI1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Guanine nucleotide-binding protein G (i) subunit alpha-1 (GNAI1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Guanine nucleotide-binding protein G (i) subunit alpha-1 (GNAI1)
Product Gene Name	GNAI1 recombinant protein
Product Synonym Gene Name	GNAI1
Sequence	GCTLSAEDKA AVERSKMIDR NLREDGEKAA REVKLLLLGA GESGKSTIVK QMKIIHEAGY SEEECKQYKA VVYSNTIQSI IAIIRAMGRL KIDFGDSARA DDARQLFVLA GAAEEGFMTA ELAGVIKRLW KDSGVQACFN RSREYQLNDS AAYYLNDLDR IAQPNYIPTQ QDVLRTRVKT TGIVETHFTF KDLHFKMFDV GGQRSERKKW IHCFEGVTAI IFCVALSDYD LVLAEDEEMN RMHESMKLFD STCNNKWFTD TSIILFLNKK DLFEEKIKKS PLTICYPEYA GSNTYEEAAA YIQCQFEDLN KRKDTKEIYT HFTCATDTKN VQFVFDAVTD VIIKNNLKDC GLF
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	40,349 Da
Sequence Positions	2-354, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5RAD4
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GNAI1 recombinant protein	MBS1323131 is a recombinant protein targeting GNAI1. Also known as Recombinant Pongo abelii Guanine nucleotide-binding protein G (i) subunit alpha-1 (GNAI1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GNAI1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNAI1. It may not necessarily be applicable to this product.

NCBI GI #	197099740
NCBI GeneID	100172679
NCBI Accession #	NP_001125754.1
UniProt Primary Accession #	Q5RAD4

UniProt Related Accession #	Q5RAD4
GenBank Nucleotide #	NM_001132282.1
NCBI Official Full Name	guanine nucleotide-binding protein G(i) subunit alpha-1
NCBI Official Symbol	GNAI1
UniProt Protein Name	Guanine nucleotide-binding protein G(i) subunit alpha-1
UniProt Synonym Protein Names	Adenylate cyclase-inhibiting G alpha protein
UniProt Gene Name	GNAI1
NCBI Protein Information	guanine nucleotide-binding protein G(i) subunit alpha-1
UniProt Comments for GNAI1	Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP binding. The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal. Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (). Signaling is mediated via effector proteins, such as adenylate cyclase. Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels (). The inactive GDP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. Required for normal cytokinesis during mitosis (). Required for cortical dynein-dynactin complex recruitment during metaphase ().
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