

Gα_{i2}(Q205L) Mutant

Catalog Number: 10147

Synonyms: Guanine nucleotide binding protein, alpha inhibiting activity polypeptide 2, GNAI2, Galphai2

Introduction: Heterotrimeric G proteins are critical cellular signal transducers. Gα_i represents one sub-family of G proteins that could mediate the inhibition of adenylyl cyclases. Other biochemical and physiological functions of Gα_i proteins are being explored.

Amino Acid Sequence: (1-355, Q205L)

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKL
 LLLGAGESGKSTIVKQMKIHHEDGYSEEECRQYRAVVY
 SNTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCT
 AEEQGVLPDDLGSVIRRLWADHGVQACFGRSREYQLN
 DSAAYYLNDLERIAQSDYIPTQQDVLTRVKTGIVET
 HFTFKDLHFKMFDVGGLRSERKKWIHCFEGVTAIIFCV
 ALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDT
 SIILFLNKKDLFEEKITHSPLTICFPEYTGANKYDEAASYI
 QSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVDAVT
 DVIKNNLKDCGLF

Source: Human, recombinant full length, His6-tag

Expression Host: E. coli

Molecular Weight: 40 kDa

Purity: >95% by SDS-PAGE

Constituents: 20 mM Tris-HCl, pH 8.0, 150 mM NaCl.

Physical Appearance: White or clear

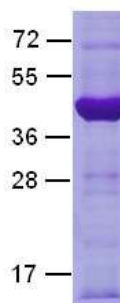
Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM β-mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β-D-maltoside (DoDM) or polyethylene detergents (e.g. C12E10) also help to

stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Gα_{i2}(Q205L) was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

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