

GAI2(Q205L) PROTEIN

Gα_i2(Q205L) Protein

Cat. #: 10147

Product Name: Gα_i2 Protein Q205L mutant

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

Source: Human, recombinant full length, His6-tag

Expression Host Species: E. coli

Molecular Weight: 40 kDa

Purity: >95% by SDS-PAGE

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)

**MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEDGYSEEECR
QYRAVVYSNTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDLSGVIRRLWAD
HGVQACFGRSREYQLNDSAAAYLNDLERIAQSDYIPTQQDVLTRVKTGIVETHFTFKDLHFKMFDVGG
LRSERKKWIHCFEGVTAIIFCVALSAYDLVLAEDEEMNRMHESMKLFDSDICNNKWFTDTSIILFLNKKDL
FEEKITHSPLTICFPEYTGANKYDEAASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVAVTDVI
IKNNLKDCGLF**

Properties

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl

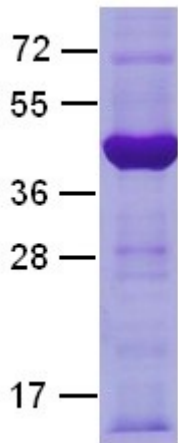
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions:

Centrifuge the vial before open the cap and reconstitute in water. 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 after reconstitution. The purity of His-tagged Gα_i2 Q205L was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.



References:

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3. Bray, P. et al., Proc. Nat. Acad. Sci. 84: 5115-5119, 1987.
4. Itoh, H. et al., J. Biol. Chem. 263: 6656-6664, 1988.
5. Lan, K.-L. et al., J. Biol. Chem. 273: 12794-12797, 1998.
6. Neer, E. J. et al., Hum. Genet. 77: 259-262, 1987.
7. Ogden, S. K. et al., Nature 456: 967-970, 2008.