

# Product Description

**Product Name:** G $\alpha_{i2}$  Protein Q205L mutant

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

**Catalogue Number:** 10147

**Source:** Human, recombinant full length, His<sub>6</sub>-tag

**Expression Host:** E. coli

**Molecular Weight:** 40 kDa

**Purity:** >95% by SDS-PAGE

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

## Amino Acid Sequence (1-355, Q205L)

MGCTVSAEDKAAERSKIDKLNREDGEKAAAREVKLLL  
LGAGESGKSTIVKQMKIIHEDGYSEEECRQYRAVVYSN  
TIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTA  
EEQGVLPPDDLSGVIRRLWADHGVQACFGRSREYQLNDS  
AAYYLNDLERIAQSDYIPTQQDVLRTVKTGTGIVETHF  
TFKDLHFKMFDVGG~~L~~RSEKRWIHC FEGVTAIIFCVAL  
SAYDLVLAEDEEMNRMHESMKLFDSDICNNKWF~~T~~DTDSII  
LFLNKKDLFEKITHSPLTICFPEYTGANKYDEAASYI  
QSKFEDLNKRKDTKEIYTHFTCATD~~T~~KNVQFVFD~~A~~VTD  
VLIKNNLKDCGLF

## Properties

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

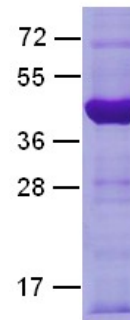
**Physical Appearance (form):** White or clear

**Concentration:** 1 mg/mL

**Storage:** -80°C

## Preparation Instructions

Adding of 10 mM  $\beta$ -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl  $\beta$ -D-maltoside (DoDM) or polyethylene detergents (e.g. C<sub>12</sub>E<sub>10</sub>) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged G $\alpha_{i2}$  Q205L was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

## References

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  10. Wilkie, T. M. et al., Nature Genet. 1: 85-91, 1992.
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