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Product Description

Product Name: G α_{13} Protein

Synonym Guanine nucleotide-binding protein subunit alpha-13 , Galpha 13, G13

Catalogue Number: 10138

Source: Human, recombinant full length, His₆-tag

Expression Host: sf9 cells

Molecular Weight: 44 kDa

Purity: >95% by SDS-PAGE

Introduction: G α_{13} belongs to the G₁₂ family of heterotrimeric guanine nucleotide-binding proteins, and has intrinsic GTPase activity. G α_{13} has been revealed to play critical roles in transformation, normal hemostasis and thrombosis, growth factor-induced cell migration, angiogenesis, and salt-induced hypertension.

Amino Acid Sequence (1-377)

MADFLPSRSVLSVCFPGCLLTSGEAEQQRKSKEIDKCL
SREKTYVKRLVKILLGAGESGKSTFLKQMRI IHGQDF
DQRAREEFRPTIYSNVIKGMRVLVDAREKLHIPWGDNS
NQQHGDKMMSFDTRAPMAAQGMVETRVFLQYLP AIRAL
WADSGIQNAYDRRREFQLGESVKYFLDNLDKLGEPDYI
PSQQDILLARRPTKGIHEYDFEIKNVPFKMVDVGGQRS
ERKRWFECFDSVTSILFLVSSSEFDQVLMEDRLTNRLT
ESLNIFETIVNRRVFSNVSIILFLNKTDLLEEKVQIVS
IKDYFLEFEGDPHCLRDVQKFLVECFRNKRRDQQQKPL
YHHFTTAINTENIRLVFRDVKDTILHDNLKQLMLQ

Properties

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

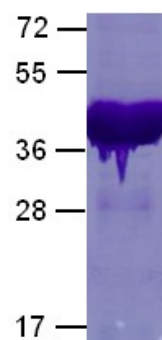
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM 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 G α_{13} was determined by SDS- PAGE and Coomassie Brilliant Blue Staining.

References

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