

Recombinant Human Guanine nucleotide-binding protein G(k) subunit alpha(GNAI3)

Catalog No: #AP70346

Package Size: #AP70346-1 20ug #AP70346-2 100ug #AP70346-3 1mg

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Description

Product Name	Recombinant Human Guanine nucleotide-binding protein G(k) subunit alpha(GNAI3)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-354aaSequence Info:Full Length
Other Names	G(i) alpha-3
Accession No.	P08754
Calculated MW	44.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MGCTLSAEDKAAVERSKMIDRNLRDGEKAAKEVKLLLLGAGESGKSTIVKQMKIIHEDGYSEDECKQYKVVV YSNTIQSIIAIRAMGRLKIDFGAARADDARQLFVLGSAEEGVMTPELAGVIKRLWRDGGVQACFSRSREYQ LNDASYYLNDLDRISQSNYIPTQQDVLRTVKTTGIVETHFTFKDLYFKMFDVGGQRSEKRWIHCFEVGTAIL FCVALSDYDLVLAEDEEMNRMHESMKLFDISICNNKWFTEISILFLNKKDLFEEDIKRSPLTICYPEYTGSNTRY EAAAYIQCFEDLNRRKDTKEIYTHFTCATDTKNVQFVDAVTDVVIKNNLKECGLY
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K⁺ channels. The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. May play a role in cell division.

References

Molecular cloning of a new human G protein. Evidence for two Gi alpha-like protein families.Didsbury J.R., Snyderman R.FEBS Lett. 219:259-263(1987)Research Topic:Cell Cycle

Note: This product is for in vitro research use only and is not intended for use in humans or animals.