Product Data Sheet

Product Name: GTP-Binding Protein Fragment, G alpha
Cat. No.: GP10115

Chemical Properties

Cas. No.			
Formula	$C_{66}H_{118}N_{20}O_{23}S_2$	M.Wt	1623.89
Solubility	≥ 162.3mg/mL in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Sequence: Cys-Gly-Ala-Gly-Glu-Ser-Gly-Lys-Ser-Thr-Ile-Val-Lys-Gln-Met-Lys

Using specific antisera raised against synthetic peptides, we find that three distinct GTP-binding protein alpha subunits remain bound to the plasma membrane even after activation with nonhydrolyzable GTP analog. Trypsin cleaves each alpha subunit at a site near the amino-terminus and quantitatively releases the large fragment (composed of all but an amino-terminal 2kDa piece) from the membrane. Previous results indicated that alpha subunits are essentially cytoplasmic proteins tethered to the inner surface of the membrane via an amino terminal stalk.

References:
1. Brock Eide, Peter Gierschik, Graeme Milligan, Ian Mullaney, Cecilia Unson, Paul Goldsmith, Allen Spiegel, Biochemical and Biophysical Research Communications, Volume 148, Issue 3, 13 November 1987, Pages 1398–1405
2. J. Falloon, H. Malech, G. Milligan, C. Unson, R. Kahn, P. Goldsmith, A. Spiegel, FEBS Letters, 209 (1986), pp. 352–356

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