

Product Data Sheet

Product Name: Cyclic GMP (TBAOH)

Cat. No.: GC72842

Chemical Properties

Cas. No.

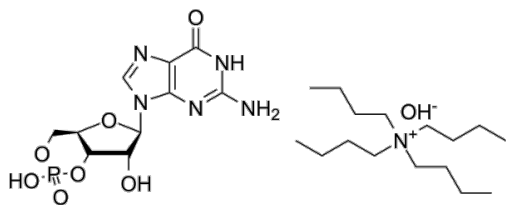
Formula $C_{26}H_{49}N_6O_8P$ M.Wt 604.68

Solubility DMSO : 100 mg/mL (165.38 mM; Need ultrasonic) Storage $-20^{\circ}C$, stored under nitrogen, away from moisture

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Cyclic GMP TBAOH is a tetra-n-butylammonium droxide (TBAOH) form of Cyclic GMP . Cyclic GMP

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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is an endogenous second messenger that regulates a variety of cellular processes including apoptosis, vasodilation, and neurotransmission through the activation of signaling pathways such as Protein Kinase G in cells.

References:

- [1]. Wu J, et al. Cyclic GMP-AMP is an endogenous second messenger in innate immune signaling by cytosolic DNA. *Science*. 2013 Feb 15;339(6121):826-30.
- [2]. Jenal U, et al. Cyclic di-GMP: second messenger extraordinaire. *Nat Rev Microbiol*. 2017 May;15(5):271-284.

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