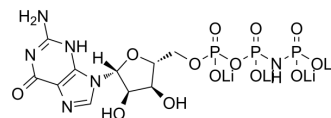


Guanylyl imidodiphosphate lithium

Cat. No.:	HY-137167
CAS No.:	64564-03-0
Molecular Formula:	C ₁₀ H ₁₃ Li ₄ N ₆ O ₁₃ P ₃
Molecular Weight:	545.93
Target:	Adenylate Cyclase
Pathway:	GPCR/G Protein
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 50 mg/mL (91.59 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		1.8317 mL	9.1587 mL	18.3174 mL
	5 mM		0.3663 mL	1.8317 mL	3.6635 mL
	10 mM		0.1832 mL	0.9159 mL	1.8317 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Guanylyl imidodiphosphate (Gpp(NH)p) lithium, a non-hydrolyzable GTP analogue, increases adenylate cyclase activity^{[1][2]}.

REFERENCES

[1]. B J Terry, et al. Assembly and disassembly properties of microtubules formed in the presence of GTP, 5'-guanylyl imidodiphosphate, and 5'-guanylyl methylenediphosphate. J Biol Chem. 1980 Nov 10;255(21):10532-6.

[2]. H Abou-Issa, et al. Modulation of follicle-stimulating hormone-sensitive rat testicular adenylate cyclase activity by guanyl nucleotides. Endocrinology. 1979 Jan;104(1):189-93.

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

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