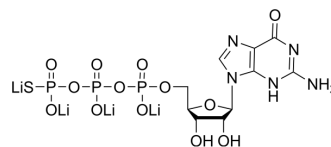


## GTPyS tetralithium

<b>Cat. No.:</b>	HY-137677B
<b>CAS No.:</b>	94825-44-2
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>12</sub> Li <sub>4</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub> S
<b>Molecular Weight:</b>	562.98
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	-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

H<sub>2</sub>O : ≥ 100 mg/mL (177.63 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	1.7763 mL	8.8813 mL	17.7626 mL
	5 mM	0.3553 mL	1.7763 mL	3.5525 mL	
	10 mM	0.1776 mL	0.8881 mL	1.7763 mL	

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

### BIOLOGICAL ACTIVITY

#### Description

GTPyS (tetralithium) is a G-protein activator that protects proteins from proteolytic degradation, stimulates GLUT4 translocation in a tyrosine kinase-dependent manner, stimulate phospholipases and induce actin polymerization. GTPyS (tetralithium) to couple with G- protein α, to study its effect on kinase activity. GTPyS (tetralithium) acts as a component of lysis buffer<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. Julie G Hensler, et al. Differential Regulation of 5-HT1A Receptor-G Protein Interactions in Brain Following Chronic Antidepressant Administration. *Neuropsychopharmacology*. 2002 May;26(5):565-73.
- [2]. Pilar Sánchez-Blázquez, et al. Brain-specific Galphaz interacts with Src tyrosine kinase to regulate Mu-opioid receptor-NMDAR signaling pathway. *Cell Signal*. 2009 Sep;21(9):1444-54.
- [3]. Xufeng Wu, et al. Rab27a is an essential component of melanosome receptor for myosin Va. *Mol Biol Cell*. 2002 May;13(5):1735-49.

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[4]. Li-Bin Liu, et al. Insulin recruits GLUT4 from distinct compartments via distinct traffic pathways with differential microtubule dependence in rat adipocytes. J Biol Chem. 2003 Aug 8;278(32):30157-69. doi: 10.1074/jbc.M301511200.

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

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