1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{10}H_{12}Li_4N_5O_{12}P_3S \)  
Batch Molecular Weight: 546.98  
Physical Appearance: White solid  
Solubility: water to 50 mM  
Storage: Store at -20°C  

2. ANALYTICAL DATA

HPLC: Shows 92.0% purity  
Mass Spectrum: Consistent with structure
Product Information

Product Name: ATPγS tetralithium salt
Catalog No.: 4080
Batch No.: 16
CAS Number: 93839-89-5
EC Number: 298-862-8
IUPAC Name: Adenosine-5'-((γ-thio)-triphosphate tetralithium salt

Description:
P2 purinergic receptor agonist. Nonhydrolyzable analog of ATP (Cat. No. 3245).

Physical and Chemical Properties:
Batch Molecular Formula: C₁₀H₁₂Li₄N₆O₁₂P₃S
Batch Molecular Weight: 546.98
Physical Appearance: White solid
Minimum Purity: >90%

Solubility & Usage Info:
- Water to 50 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:
Peck and Herschlag (2003) Adenosine 5'-O-(3-thio)triphosphate (ATPgammaS) is a substrate for the nucleotide hydrolysis and RNA unwinding activities of eukaryotic translation initiation factor elF4A. RNA 9 1180. PMID: 13130132.