

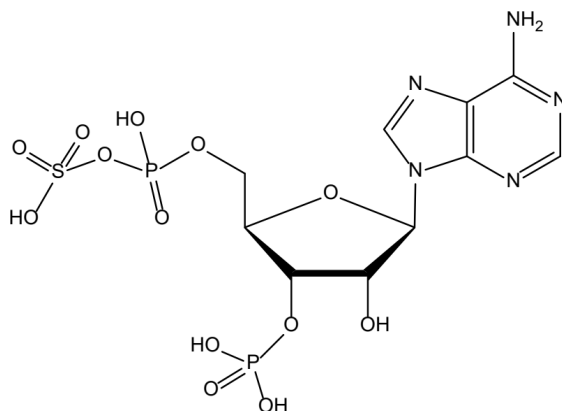
Product Data Sheet

PAPS

3'-phosphoadenosine 5'-phosphosulfate

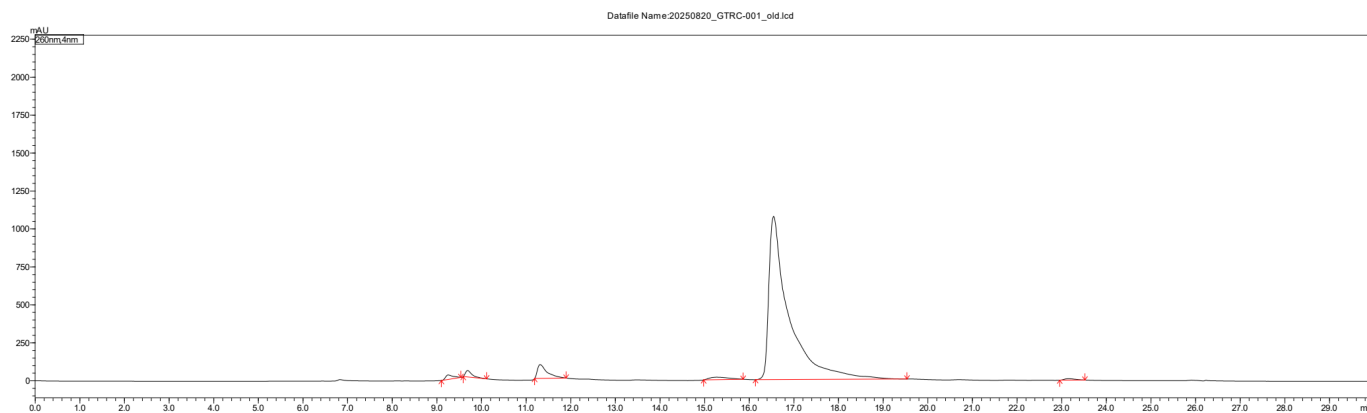
Catalog No.	GTRC-001
Lot ID	GTRC-001_250821_ES
Test Date	August 20, 2025
Expiration Date	August 19, 2027
Chemical Formula	C ₁₀ H ₁₅ N ₅ O ₁₃ P ₂ S
Molecular Weight	507.9 g/mol
Quantity	100 mg
Purity	Criteria: >90% by HPLC Actual: 92%
Appearance	Colorless solution when dissolved in water.
Storage	–20 °C or below. Avoid repeat freeze-thawing.
Safety Information	We are not aware of any toxicity with this product. The material should only be handled by qualified personnel trained in laboratory procedures and familiar with potential hazards. For laboratory research use only. Not for human or drug use.

Structure



Analytical Data

HPLC



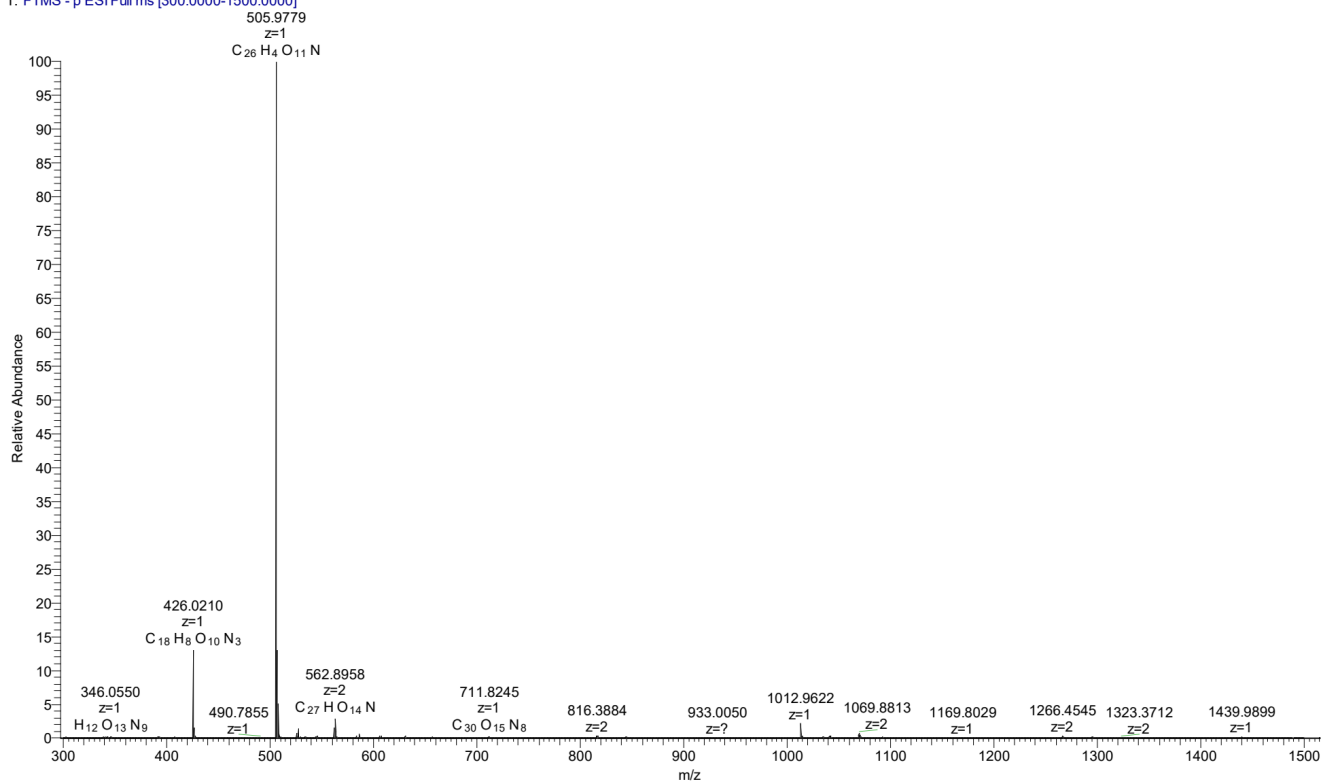
Datafile: 20250820_GTRC-001_old.lcd · UV 260 nm

HPLC Conditions

A strong anion exchange column Pro Pac PA1 (9 × 250 mm, Thermo Fisher Scientific) was used to determine the purity of PAPS after purification. Mobile phase A was 20 mM NaOAc, pH 5.5. Mobile phase B was 20 mM NaOAc and 2 M NaCl, pH 5.5. The gradient was as follows: 0–30 min 0–50% B, with a flow rate of 2 mL/min. The ultraviolet absorbance at 260 nm was scanned and recorded.

Mass Spectrometry (HRMS)

20250820_GTRC-001 #7334-8065 RT: 16.53-18.16 AV: 732 NL: 4.33E7
T: FTMS - p ESI Full ms [300.0000-1500.0000]



Orbitrap Exploris 240, ESI negative-ion mode

HRMS Conditions

The ACQUITY Glycan BEH Amide column (1.7 μ m, 2.1 $\times$ 150 mm; Waters, Ireland, UK) was used at 60 °C. Mobile phase A was 50 mM ammonium formate in water, pH 4.4. Mobile phase B is acetonitrile. The elution gradient as follows: 0–5 min 83% B, 5–30 min 83–30% B. The flow rate was 0.25 mL/min. Online high resolution Orbitrap Exploris 240 mass spectrometry was used as the detector (Thermo Fisher Scientific). The ESI-MS analysis was operated in the negative-ion mode using the following parameters: Neg ion spray voltage at 2.0 kV, sheath gas at 30 Arb, aux gas 5 arb, ion transfer tube temp at 300 °C, and vaporizer temp at 400 °C.

Released by

Signature: _____

Date: _____