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## Product Information

### Adenosine 3'-phosphate 5'-phosphosulfate lithium salt hydrate

Product Number **A1651**

Storage Temperature -20 °C

#### Product Description

Molecular Formula:  $C_{10}H_{15}N_5O_{13}P_2S \cdot xLi^+ \cdot yH_2O$

Molecular Weight: 507.26 (free acid basis)

CAS Number: 109434-21-1

Extinction Coefficient:  $E^{mM} = 15.4$  (259 nm, pH 7.0)<sup>1</sup>

Synonyms: APPS, PAPS

3'-Phosphoadenosine 5'-phosphosulfate is utilized as the active sulfuryl group donor in reactions catalyzed by sulfotransferases, which result in the formation of sulfate esters of phenols, steroids, primary and secondary amines, lipids, and glycosides.<sup>2,3</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### Preparation Instructions

This product is soluble in water (50 mg/ml), yielding a clear solution.

#### Storage/Stability

It is recommended that solutions be prepared fresh, directly before use. If stock solutions must be prepared, they should be made up in pH 8.0 buffer and stored aliquoted at -70 °C

#### References

1. Specifications and Criteria for Biochemical Compounds, 3rd Ed., National Academy of Sciences (Washington, DC: 1972), p.159.
2. Horowitz, J. P., et al., Studies on Bovine Adrenal Estrogen Sulfotransferase. III. Facile Synthesis of 3'-phospho- and 2'-phosphoadenosine 5'-phosphosulfate. *Biochim. Biophys. Acta*, **480(2)**, 376-381 (1977).
3. Ramaswamy, S. G., and Jakoby, W. B., Amine N-sulfotransferase. *J. Biol. Chem.*, **262(21)**, 10039-10043 (1987).

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