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Product Information

α,β -Methyleneadenosine 5'-triphosphate lithium salt

Product Number **M 6517**

Storage Temperature -20°C

Product Description

Molecular Formula: $\text{C}_{11}\text{H}_{18}\text{N}_5\text{O}_{12}\text{P}_3$ (Free acid)

Molecular Weight: 505.2 (Free acid)

CAS Number: 104809-20-3

Extinction Coefficient: $E_{\text{mM}}^{259} = 15.4$ (259 nm in 0.1 M phosphate buffer, pH 7.0, free acid)¹

This compound activates P2 purinergic receptors. There is greater potency at the P2x subtype than with ATP. The product mediates arterial, bladder, and vas deferens contraction.²

Precautions and Disclaimer

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

Preparation Instructions

This product is soluble in water (100 mg/ml).

Storage/Stability

This product should be stable in water at -20°C for at least 6 months. The methylene group between the phosphates renders the molecule more stable in solution compared to ATP.

References

1. Specifications and Criteria for Biochemical Compounds, 3rd Ed., National Academy of Sciences (Washington, DC: 1972), p. 159.
2. Burnstock, et al., Is there a basis for distinguishing two types of P2-purinoceptor? Gen. Pharmacol., **16**, 433 (1985).

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