19511 Mant-ADP triethylammonium salt solution

Molecular Formula: \( C_{18}H_{22}N_6O_{11}P_2 \) (free acid)
Molecular Weight: 560.35 g/mol (free acid)
Form: clear aqueous solution
Concentration: 10 mM
pH: 7.5 +/-0.5
Spectroscopic Properties:
\( \lambda_{\text{max}} 255/355 \text{ nm; } \lambda_{\text{exc}} 355 \text{ nm; } \lambda_{\text{em}} 448 \text{ nm; } \epsilon 23.3/5.8 \text{ L mmol}^{-1} \text{ cm}^{-1} \) (Tris-HCl pH 7.5)
Package quantity: 150 Units
Unit Definition: 1 unit = 1 ul of a 10 mM solution

Structural formula of Mant-ADP

Applications:
MYOSIN-ATPase cycle\(^1\)
SecA cycle\(^2\)
Dissociation kinetic proteinkinase A\(^3\)
FRET: kinesin\(^4\), myosin\(^5, 1\)
Conformational dynamic: DnaC-protein\(^6\)

Specific Ligands:
Kinesin head domains\(^4\)
Myosin\(^5\)

Selected References:


Bauer et al. (1997) X-ray crystal structure and solution fluorescence characterization of Mg-2’(3’)-O-(N-methylanthraniloyl) nucleotides bound to the Dictyostelium discoideum myosin motor domain. *J. Mol.Biol.* **274**:394.


**Storage Conditions:** store at -20 °C, protect from light

**Precautions and Disclaimer:**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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