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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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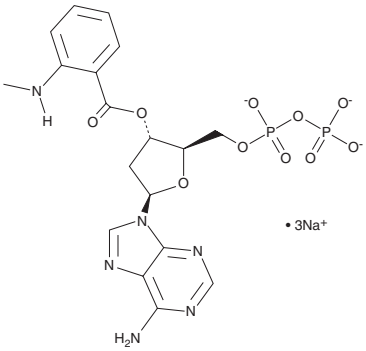
PRODUCT INFORMATION

2'-Deoxy-3'-O-(N'-methylanthraniloyl)adenosine-5'-O-diphosphate (sodium salt)

Item No. 38670



Formal Name:	2′-deoxy-3′-[2-(methylamino)benzoate] adenosine 5′-(trihydrogen diphosphate), trisodium salt
Synonyms:	2'-deoxy-3'-MANT-ADP, MANT-dADP
MF:	$C_{18}H_{19}N_6O_{10}P_2$ • 3Na
FW:	610.3
Purity:	≥95%
EX./EM. Max:	356/453 nm
Supplied as:	A solution in water
Storage:	-80°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

2'-Deoxy-3'-O-(N'-methylanthraniloyl)adenosine-5'-O-diphosphate (MANT-dADP) is a fluorescent nucleotide derivative.[1] It displays an emission maximum of 453 nm upon excitation at 350 nm.[1] MANT-dADP (100 µM) decreases inositol phosphate formation in CHO-K1 cells expressing the human purinergic $P2Y_{12}$ receptor.[2] It has been used to study the interaction between cardiac troponin I and myofibrils.[3]

References

1. Bujalowski, W. and Klonowska, M.M. Structural characteristics of the nucleotide-binding site of *Escherichia coli* primary replicative helicase DnaB protein. Studies with ribose and base-modified fluorescent nucleotide analogs. *Biochemistry* **33(15),** 4682-4694 (1994).
2. Schmidt, P., Ritscher, L., Dong, E.N., *et al.* Identification of determinants required for agonistic and inverse agonistic ligand properties at the ADP receptor $P2Y_{12}$. *Mol. Pharmacol.* **83(1),** 256-266 (2013).
3. Gunther, L.K., Feng, H.-Z., Wei, H., *et al.* Effect of N-terminal extension of cardiac troponin I on the Ca^{2+} regulation of ATP binding and ADP dissociation of myosin II in native cardiac myofibrils. *Biochemistry* **55(12),** 1887-1897 (2016).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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