



# SZABO SCANDIC

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## Produktinformation



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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



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

Item No. 38457

**Formal Name:** ((2R,3S,5R)-5-(6-amino-9H-purin-9-yl)-3-((2-(methylamino)benzoyl)oxy)tetrahydrofuran-2-yl)methyl triphosphate, tetrasodium salt

**Synonyms:** 2'-deoxy-3'-MANT-ATP, MANT-dATP,

**MF:** C<sub>18</sub>H<sub>19</sub>N<sub>6</sub>O<sub>13</sub>P<sub>3</sub> • 4Na

**FW:** 712.3

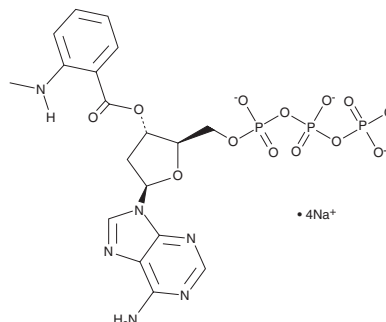
**Purity:** ≥95%

**Supplied as:** A solution in water

**Ex./Em. Max:** 290/440 nm

**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-triphosphate is a fluorescent derivative of ATP.<sup>1,2</sup> It is an inhibitor of the calmodulin-dependent *B. anthracis* edema factor adenylyl cyclase (AC) toxin ( $K_i = 40$  nM). 2'-Deoxy-3'-O-(N'-methylanthraniloyl)adenosine-5'-O-triphosphate (100  $\mu$ M) decreases inositol phosphate formation in CHO-K1 cells expressing the human purinergic P2Y<sub>12</sub> receptor.<sup>3</sup> It displays excitation/emission maxima of 290/440 nm, respectively.<sup>1</sup>

### References

1. Ni, Q., Shaffer, J., and Adams, J.A. Insights into nucleotide binding in protein kinase A using fluorescent adenosine derivatives. *Protein Sci.* **9(9)**, 1818-1827 (2000).
2. Suryanarayana, S., Wang, J.L., Richter, M., *et al.* Distinct interactions of 2'- and 3'-O-(N-methyl)anthraniloyl-isomers of ATP and GTP with the adenylyl cyclase toxin of *Bacillus anthracis*, edema factor. *Biochem. Pharmacol.* **78(3)**, 224-230 (2009).
3. 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<sub>12</sub>. *Mol. Pharmacol.* **83(1)**, 256-266 (2013).

#### 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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