



# SZABO SCANDIC

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## Produktinformation



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# PRODUCT INFORMATION

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

Item No. 38459

**Formal Name:** 2'-deoxy-3'-[2-(methylamino) benzoate] guanosine 5'-(tetrahydrogen triphosphate), tetrasodium salt

**Synonyms:** 2'-deoxy-3'-MANT-GTP, MANT-dGTP

**MF:** C<sub>18</sub>H<sub>19</sub>N<sub>6</sub>O<sub>14</sub>P<sub>3</sub> • 4Na

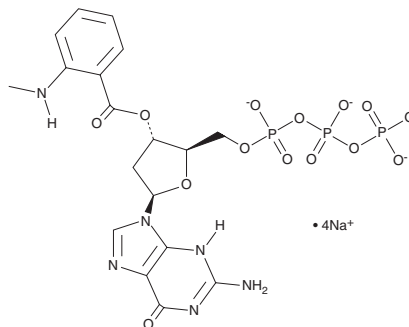
**FW:** 728.3

**Purity:** ≥95%

**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)guanosine-5'-O-triphosphate (2'-deoxy-3'-MANT-GTP) is a fluorescent derivative of dGTP (Item No. 35771).<sup>1-3</sup> It selectively inhibits recombinant mammalian adenylyl cyclase 1 (AC1), AC2, AC5, and AC6 (K<sub>i</sub>s = 260, 1,200, 420, and 470 nM, respectively), bovine lung soluble guanylyl cyclase (sGC; K<sub>i</sub> = 220 nM), and *B. anthracis* edema factor AC toxin (K<sub>i</sub> = 630 nM) over rat testis soluble AC (sAC) and *B. pertussis* AC toxin (K<sub>i</sub>s = 43 and 14 μM, respectively).<sup>1</sup> 2'-deoxy-3'-MANT-GTP has been used to study the activity of various GTPases, including elongation factor Tu (EF-Tu) and H-Ras p21.<sup>2,3</sup>

### References

- Gille, A., Lushington, G.H., Mou, T.-C., *et al.* Differential inhibition of adenylyl cyclase isoforms and soluble guanylyl cyclase by purine and pyrimidine nucleotides. *J. Biol. Chem.* **279**(19), 19955-19969 (2004).
- Rodina, M.V., Fricke, R., Kuhn, L., *et al.* Codon-dependent conformational change of elongation factor Tu preceding GTP hydrolysis on the ribosome. *EMBO J.* **14**(11), 2613-2619 (1995).
- John, J., Sohmen, R., Feuerstein, J., *et al.* Kinetics of interaction of nucleotides with nucleotide-free H-ras p21. *Biochemistry* **29**(25), 6058-6065 (1990).

#### 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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