



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lscgroup.com Website: www.trc-canada.com

1. Identification

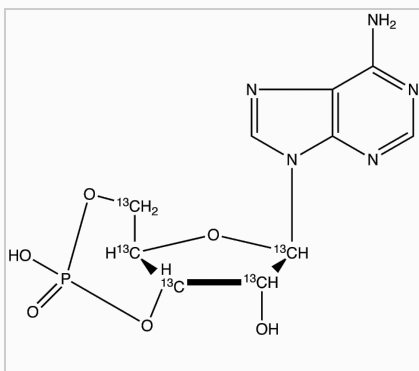
Catalogue Number: A280457

CAS Number: NA

Product: Adenosine-3',5'-cyclic-13C5 Monophosphate

Synonym: Adenosine Cyclic-13C5 3',5'-(Hydrogen Phosphate); 3',5'-AMP-13C5; Adenosine-13C5 3',5'-Phosphoric Acid; Cyclic 3',5'-AMP-13C5; Cyclic 3',5'-Adenosine-13C5 Monophosphate; Cyclic AMP-13C5; cAMP-13C5;

Structure:



Molecular Formula:

$C_5^{13}C_5H_{12}N_5O_6P$

Molecular weight:

334.17

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 6-TMH-153-2

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|------------------------------------|
| NMR | Conforms to Structure | Conforms |
| P NMR | Conforms to Structure | Conforms |
| HPLC Purity | Report Result | 97.18% (260 nm) |
| Elemental Analysis | Conforms | %C: 32.08, %H: 3.90, %N: 18.22 |
| MS | Conforms to Structure | Conforms |
| Appearance | White to Off-White Solid | White Solid |
| Isotopic Purity | >95% | 99.8% ($^{13}C_0 = 0.03\%$) |
| Water Content | Report Result | ~10.6% based on Elemental Analysis |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|-------------|---------------|--------------------|-----------|-------------|
| Neha Khanna | Toni Rantanen | Chanell Chu | 2/7/2022 | 2/5/2026 |

