



## Certificate of Analysis

|              |                                     |
|--------------|-------------------------------------|
| Product Name | Dibutyryl-cAMP (Bucladesine sodium) |
| Catalog No.  | V1846                               |
| Batch No.    | V184603                             |

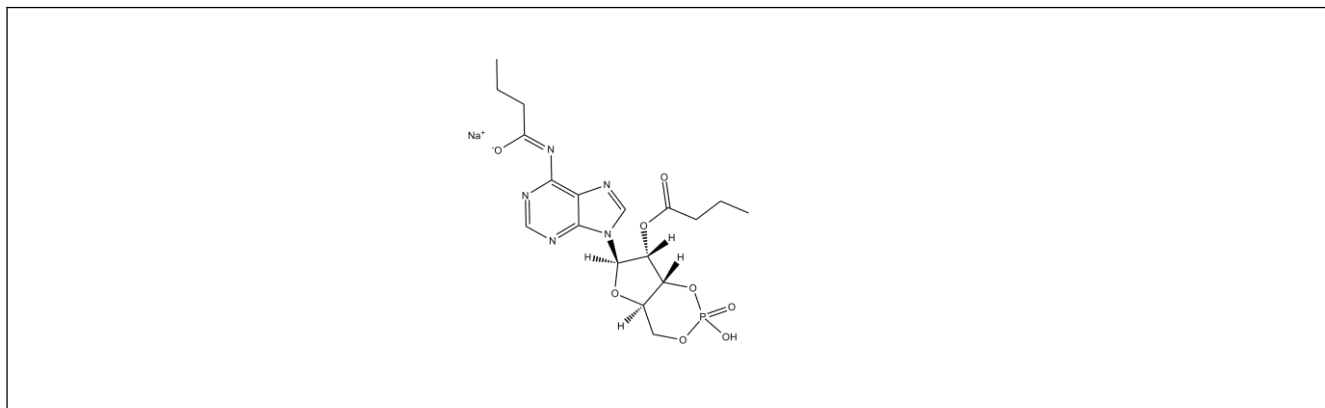
### 1. Physical and Chemical Properties

|                   |   |
|-------------------|---|
| Appearance        | Powder  |
| Molecular Formula | C <sub>18</sub> H <sub>23</sub> N <sub>5</sub> NaO <sub>8</sub> P |
| Molecular Weight  | 491.37  |
| Purity            | ≥98%  |
| CAS No.           | 16980-89-5  |
| Production Date   | 08/14/2023  |

### 2. Analytical Data

|               |                           |
|---------------|---------------------------|
| HPLC          | Indicates ≥98% purity     |
| NMR           | Consistent with structure |
| Mass Spectrum | Consistent with structure |

### 3. Structure



### 4. Storage Condition

|                            |  |
|----------------------------|--|
| Short term storage (weeks) | 0 - 4 °C under dry condition for six weeks |
| Long term storage (months) | -20 °C under dry condition for three years |

Products are for research use only • Not for human or veterinary use