

PRODUCT INFORMATION



Bucladesine (sodium salt) Ancillary Material

Item No. 44786

CAS Registry No.: 16980-89-5

Formal Name: N-(1-oxobutyl)-cyclic 3',5'-(hydrogen phosphate) 2'-butanoate-adenosine, monosodium salt

Synonyms: DC 2797, Dibutyryl-cAMP, Dibutyryl-Cyclic AMP

MF: $C_{18}H_{23}N_5O_8P \cdot Na$

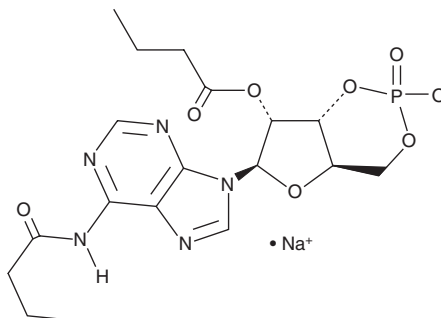
FW: 491.4

Purity: $\geq 98\%$

Supplied as: An amorphous solid

Storage: $-20^{\circ}C$

Stability: *batch specific Please see the Certificate of Analysis for retest dating.*



Description

Bucladesine is a cell-permeable, cyclic nucleotide derivative that mimics the action of endogenous cyclic adenosine monophosphate (cAMP) and is a phosphodiesterase inhibitor.^{1,2} Because it mimics cAMP, bucladesine can induce normal physiological responses when added to cells. Bucladesine (sodium salt) Ancillary Material is intended for use in cell, gene, and tissue engineering applications.

This product has been tested in accordance with GMP principles and meets the expectations for clinical cell, gene, and tissue-engineered products in accordance with USP <1043> "Ancillary Materials for Cell, Gene, and Tissue-engineered Products".³

References

1. Bartsch, M., Zorn-Kruppa, M., Kühl, N., *et al.* Bioactivatable, membrane-permeant analogs of cyclic nucleotides as biological tools for growth control of C6 glioma cells. *Biol. Chem.* **384**(9), 1321-1326 (2003).
2. Rundfeldt, C., Steckel, H., Sörensen, T., *et al.* The stable cyclic adenosine monophosphate analogue, dibutyryl cyclo-adenosine monophosphate (bucladesine), is active in a model of acute skin inflammation. *Arch. Dermatol. Res.* **304**(4), 313-317 (2012).
3. **United States Pharmacopeia.** <1043> Ancillary Materials for Cell, Gene, and Tissue-Engineered Products. In: *USP-NF*. Rockville, MD: United States Pharmacopeial Convention.

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.

WARRANTY AND LIMITATION OF REMEDY

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