

Dibutyryl-cAMP, sodium salt Activator

Dibutyryl-cAMP, sodium salt

CATALOG #
AAA79337

APPLICATIONS
Functional Assay

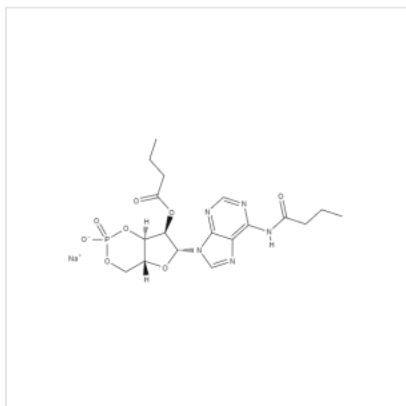
PRODUCT SYNONYMS

Dibutyryl-cAMP; sodium salt; Bucladesine sodium salt; Actosin; MLS001148197; sodium;[(4aR; 6R; 7R; 7aR)-6-[6-(butanoylamino)purin-9-yl]-2-oxido-2-oxo-4a; 6; 7; 7a-tetrahydro-4H-furo[3; 2-d][1; 3; 2]dioxaphosphinin-7-yl] butanoate; sodium salt activator

PRODUCT SPECIFICATIONS

Purity/Purification	>=95%
Form/Format	Crystalline solid
Applicable Applications for Dibutyryl-cAMP, sodium salt activator	FA (Functional Assay)
Molecular Formula	C ₁₈ H ₂₃ N ₅ O ₈ P Na
CAS Number	16980-89-5
Preparation and Storage	Product should be kept at -20°C.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Dibutyryl-cAMP, sodium salt activator

Dibutyryl-cAMP is a cell-permeable activator of cAMP-dependent protein kinases and phosphodiesterase inhibitor. It mimics endogenous cyclic adenosine monophosphate (cAMP). Dibutyryl-cAMP is reported to induce apoptosis in vascular smooth muscle cells and induce neurite growth.

References

Kahn, A. M., Dolson, G. M., Hise, M. K., Bennett, S. C., & Weinman, E. J. (1985). Parathyroid hormone and dibutyl cAMP inhibit Na⁺/H⁺ exchange in renal brush border vesicles. *American Journal of Physiology-Renal Physiology*, 248(2), F212-F218.

Kahn, A. M., Dolson, G. M., Hise, M. K., Bennett, S. C., & Weinman, E. J. (1985). Parathyroid hormone and dibutyl cAMP inhibit Na⁺/H⁺ exchange in renal brush border vesicles. *American Journal of Physiology-Renal Physiology*, 248(2), F212-F218.

Leonard, J. L. (1988). Dibutyl cAMP induction of type II 5' deiodinase activity in rat brain astrocytes in culture. *Biochemical and biophysical research communications*, 151(3), 1164-1172.

Rundfeldt, C., Steckel, H., Sørensen, T., & Wlaz, P. (2012). The stable cyclic adenosine monophosphate analogue, dibutyl cyclo-adenosine monophosphate (bucladesine), is active in a model of acute skin inflammation. *Archives of dermatological research*, 304(4), 313-317.

NCBI AND UNIPROT INFORMATION

Molecular Weight	491.4
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/activator/dibutyl-camp-sodium-salt/79337>