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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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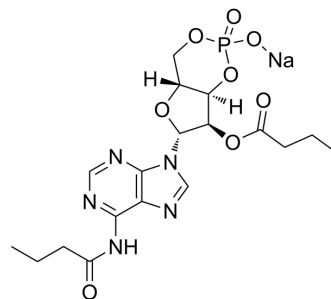
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Bucladesine sodium (Standard)

Cat. No.:	HY-B0764R
CAS No.:	16980-89-5
Molecular Formula:	C ₁₈ H ₂₃ N ₅ NaO ₈ P
Molecular Weight:	491.37
Target:	Phosphodiesterase (PDE); PKA
Pathway:	Metabolic Enzyme/Protease; Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bucladesine (sodium) (Standard) is the analytical standard of Bucladesine (sodium). This product is intended for research and analytical applications. Bucladesine sodium salt (Dibutyl-cAMP sodium salt) is a stabilized cyclic AMP (cAMP) analog and a selective PKA activator. Bucladesine sodium salt raises the intracellular levels of cAMP. Bucladesine sodium salt is also a phosphodiesterase (PDE) inhibitor. Bucladesine sodium salt has anti-inflammatory activity and can be used for impaired wound healing ^{[1][2][3][4]} .
IC₅₀ & Target	PKA ^[1] Phosphodiesterase (PDE) ^[4]

REFERENCES

- [1]. Sharifzadeh, M., et al., Post-training intrahippocampal infusion of nicotine-bucladesine combination causes a synergistic enhancement effect on spatial memory retention in rats. *Eur J Pharmacol*, 2007. 562(3): p. 212-20.
- [2]. Mafune, E., M. Takahashi, and N. Takasugi, Effect of vehicles on percutaneous absorption of bucladesine (dibutyl cyclic AMP) in normal and damaged rat skin. *Biol Pharm Bull*, 1995. 18(11): p. 1539-43.
- [3]. Rundfeldt, C., et al., The stable cyclic adenosine monophosphate analogue, dibutyl cyclo-adenosine monophosphate (bucladesine), is active in a model of acute skin inflammation. *Arch Dermatol Res*, 2012.
- [4]. Salehi F, et al. Effect of bucladesine, pentoxifylline, and H-89 as cyclic adenosine monophosphate analog, phosphodiesterase, and protein kinase A inhibitor on acute pain. *Fundam Clin Pharmacol*. 2017 Aug;31(4):411-419.
- [5]. Shimojo M, et al. The cholinergic gene locus is coordinately regulated by protein kinase A II in PC12 cells. *J Neurochem*. 1998 Sep;71(3):1118-26.

Caution: Product has not been fully validated for medical applications. For research use only.

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