
Product Data Sheet

Product Name: 8-Chloro-cAMP

Cat. No.: GC64460

Chemical Properties

Cas. No. 41941-56-4

Formula C₁₀H₁₁ClN₅O₆P

M.Wt

363.65

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

8-Chloro-cAMP is a cAMP analogue that induces growth arrest, and modulates cAMP-dependent PKA activity. 8-Chloro-cAMP has anticancer activity[1].

8-Chloro-cAMP markedly inhibits vascular smooth muscle cell (VSMC) proliferation in vitro, reduces protein kinase A (PKA) RI α subunit expression, and induces PKA RII β subunit expression[1].

In rat bearing balloon injury, 8-Chloro-cAMP (12 mg/kg) reduces, in a dose-dependent manner, neointimal area and neointima/media ratio after balloon injury. 8-Chloro-cAMP shows a reduction of proliferative activity of VSMCs in vivo[1].

[1]. C Indolfi, et al. 8-chloro-cAMP inhibits smooth muscle cell proliferation in vitro and neointima formation induced by balloon injury in vivo. J Am Coll Cardiol. 2000 Jul;36(1):288-93.

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

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