

Product Data Sheet

Product Name: Cyclic AMP-13C5

Cat. No.: GC74196

Chemical Properties

Cas. No. 2170095-23-3

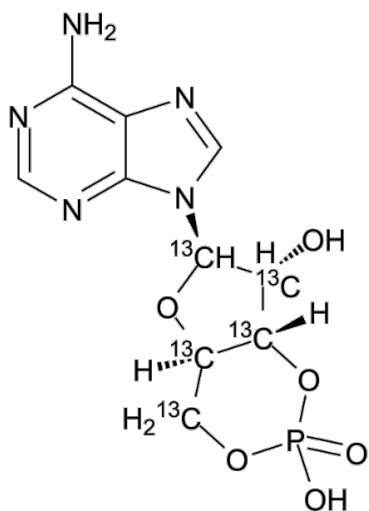
Formula $C_{513}C_5H_{12}N_5O_6P$ M.Wt 334.17

Solubility 0.1 M NaOH : 30 mg/mL (89.77 mM; Storage -20°C, protect from light, stored
ultrasonic and warming and adjust under nitrogen
pH to 6 with NaOH)

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

Cyclic AMP-13C5 is a deuterated cyclic AMP.

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

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Stable heavy isotopes of drogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

References:

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-226.

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