
Product Data Sheet

Product Name: Adenosine-d2

Cat. No.: GC68625

Chemical Properties

Cas. No. 82741-17-1

Formula $C_{10}H_{11}D_2N_5O_4$

M.Wt 269.25

Solubility DMSO : 125 mg/mL (464.25 mM; Need ultrasonic) 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**

Adenosine-d₂ is the deuterium labeled Adenosine. Adenosine (Adenine riboside), a ubiquitous endogenous autacoid, acts through the enrollment of four G protein-coupled receptors: A1, A2A, A2B, and A3. Adenosine affects almost all aspects of cellular psio

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Borea PA, Gessi S, Merighi S, Vincenzi F, Varani K. Pharmacology of Adenosine Receptors: The State of the Art. Psiol Rev. 2018;98(3):1591-1625.;Fredholm BB.

Adenosine, an endogenous distress signal, modulates tissue damage and repair. Cell Death Differ.

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

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