

Product Data Sheet

Product Name: Sp-ATP α S tetrasodium solution (100mM)

Cat. No.: GC81402

Chemical Properties

Cas. No.

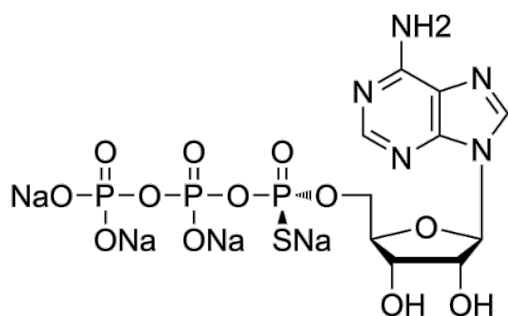
Formula $C_{10}H_{12}N_5Na_4O_{12}P_3S$ M.Wt 611.17

Solubility Storage Store at -20°C, protect from light

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

Sp-ATP α S tetrasodium is a thiophosphonate analogue of ATP. Sp-ATP α S tetrasodium is a competitive antagonist of the human P2Y1 receptor and can inhibit the calcium signal induced by ADP. Sp-ATP α S tetrasodium has higher metabolic stability than ATP. Sp-ATP α S tetrasodium can be used to study the binding mode of metal-nucleotide in enzymatic reactions [1].

References:

[1]. Connolly BA, Eckstein F. S-Methylated nucleoside phosphorothioates as probes of enzyme metal X nucleotide binding sites. Biochemistry. 1982 Nov 23;21(24):6158-67.

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

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[2]. Léon C, et al. The P2Y1 receptor is an ADP receptor antagonized by ATP and expressed in platelets and megakaryoblastic cells. FEBS Lett. 1997 Feb 10;403(1):26-30.

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