

Product Data Sheet

Product Name: 6-Thioinosine

Cat. No.: GC35171

Chemical Properties

Cas. No. 574-25-4

SMILES S=C1NC=NC2=C1N=CN2C3[C@@H]([C@@H]([C@@H](CO)O3)O)O

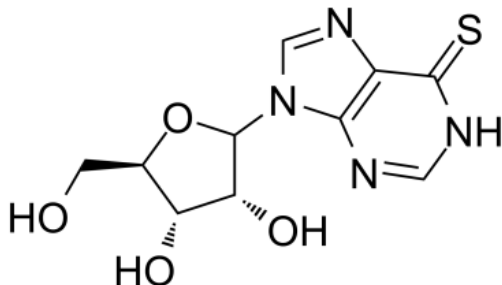
Formula $C_{10}H_{12}N_4O_4S$ M.Wt 284.29

Solubility DMSO: 50 mg/mL (175.88 mM) 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



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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

6-?Thioinosine (6TI) is a purine antimetabolite, acts as an anti-adipogenesis agent, downregulates mRNA levels of PPAR γ and C/EBP α , as well as PPAR γ target protein such as LPL, CD36, aP2, and LXR α [1][2].

[1]. Lee J, et al. Anti-adipogenesis by 6-thioinosine is mediated by downregulation of PPAR gamma through JNK-dependent upregulation of iNOS. Cell Mol Life Sci. 2010 Feb;67(3):467-81. [2]. Neubert D, et al. Interference of 6-mercaptopurine riboside, 6-methylmercaptopurine riboside and azathioprine with the morphogenetic differentiation of mouse extremities in vivo and in organ culture. Naunyn Schmiedebergs Arch Pharmacol. 1977 Jun;298(2):93-105.

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