Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

6-Mercaptopurine

Catalog No: tcsc1499

Available Sizes

Size: 50mg

Size: 100mg

Size: 500mg

Specifications

CAS No:
50-44-2

Formula:
$C_5H_4N_4S$

Pathway:
Cell Cycle/DNA Damage

Target:
Nucleoside Antimetabolite/Analog

Purity / Grade:
>98%

Solubility:
DMSO : 50 mg/mL (328.56 mM; Need ultrasonic)

Alternative Names:
Mercaptopurine;6-MP

Observed Molecular Weight:
152.18

Product Description

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6-Mercaptopurine is a purine analogue which acts as an antagonist of the **endogenous purines** and has been widely used as antileukemic agent and immunosuppressive drug.

IC50 & Target: endogenous purines[1]

In Vitro: 6-Mercaptopurine hydrate (6-MP) induces NR4A3 transcriptional activity 1.6- to 11-fold (P[2].

In Vivo: In the fetal telencephalons of the 6-Mercaptopurine hydrate (6-MP)-treated group, the S phase cell population increases at 36 and 48 h and returns to the control level at 72 h after treatment. The G2/M phase cell population begins to increase at 24 h, peaks at 36 h, decreases at 48 h, and finally returnes to the control level at 72 h. On the other hand, the sub-G1 phase cell population (apoptotic cells) begins to increase at 36 h, peaks at 48 h, and then decreases at 72 h[3].