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

6-Thioguanine

Catalog No: tcsc1497

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
154-42-7

Formula:
$C_5H_5N_5S$

Pathway:
Cell Cycle/DNA Damage;Autophagy;Anti-infection

Target:
Deubiquitinase;Autophagy;SARS-CoV

Purity / Grade:
>98%

Solubility:
DMSO : 10 mg/mL (59.81 mM; Need ultrasonic and warming)

Alternative Names:
Thioguanine□2-Amino-6-purinethiol

Observed Molecular Weight:
167.19

Product Description

6-Thioguanine (Thioguanine) is an anti-leukemia and immunosuppressant agent, acts as an inhibitor of SARS and MERS coronavirus papain-like proteases (**PLpros**) and also potently inhibits **USP2** activity, with **IC_{50}**s of 25 μM and 40 μM for Plpros and recombinant

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human USP2, respectively.

IC50 & Target: IC50: 25 μM (PLpros), 40 μM (Recombinant human USP2)[3]

In Vitro: 6-Thioguanine (Thioguanine) is an anti-leukemia and immunosuppressant agent, acts as an inhibitor of SARS and MERS coronavirus papain-like proteases (PLpros) and also potently inhibits USP2 activity, with IC_{50}s of 25 μM and 40 μM for Plpros and recombinant human USP2, respectively[1]. 6-Thioguanine (Thioguanine) affects the methylation of cytosine residues by purified DNA methyltransferases including human DNMT1 and bacterial HpaII methylase. 6-Thioguanine (Thioguanine) (1 or 3 μM) decreases global cytosine methylation in Jurkat T cells and cytosine methylation in human cells at 3 μM[2]. 6-Thioguanine (Thioguanine) (18.75, 37.50, or 75.00 μM) adversely affects cell viability, but with no effect on LDH or ALT activity[3].