

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

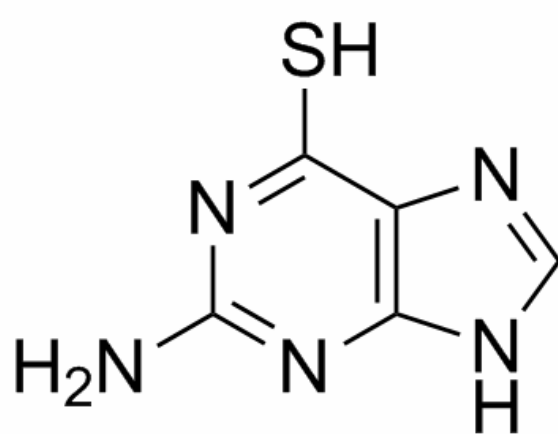
Product Description

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 **IC₅₀**s of 25 μM and 40 μM for Plpros and recombinant

human USP2, respectively.

IC₅₀ & Target: IC₅₀: 25 μ M (PLpros), 40 μ M (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 IC₅₀s of 25 μ M and 40 μ M 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 μ M) decreases global cytosine methylation in Jurkat T cells and cytosine methylation in human cells at 3 μ M^[2]. 6-Thioguanine (Thioguanine) (18.75, 37.50, or 75.00 μ M) adversely affects cell viability, but with no effect on LDH or ALT activity^[3].



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