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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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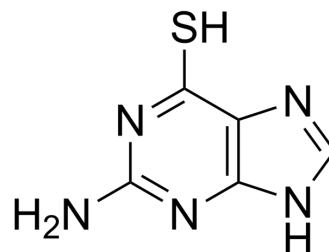
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6-Thioguanine (Standard)

| | |
|---------------------------|---|
| Cat. No.: | HY-13765R |
| CAS No.: | 154-42-7 |
| Molecular Formula: | C ₅ H ₅ N ₅ S |
| Molecular Weight: | 167.19 |
| Target: | SARS-CoV; Deubiquitinase; Autophagy; Apoptosis; DNA Methyltransferase; Endogenous Metabolite |
| Pathway: | Anti-infection; Cell Cycle/DNA Damage; Autophagy; Apoptosis; Epigenetics; Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | 6-Thioguanine (Standard) is the analytical standard of 6-Thioguanine. This product is intended for research and analytical applications. 6-Thioguanine (Thioguanine; 2-Amino-6-purinethiol) 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. |
| IC₅₀ & Target | IC ₅₀ : 25 μM (PLpros), 40 μM (Recombinant human USP2) ^[3] |

REFERENCES

- [1]. Chuang SJ, et al. 6-Thioguanine is a noncompetitive and slow binding inhibitor of human deubiquitinating protease USP2. *Sci Rep.* 2018 Feb 15;8(1):3102.
- [2]. Wang H, et al. 6-Thioguanine perturbs cytosine methylation at the CpG dinucleotide site by DNA methyltransferases in vitro and acts as a DNA demethylating agent in vivo. *Biochemistry.* 2009 Mar 17;48(10):2290-9.
- [3]. LaDuke KE, et al. Effects of azathioprine, 6-mercaptopurine, and 6-thioguanine on canine primary hepatocytes. *Am J Vet Res.* 2015 Jul;76(7):649-55.

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

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