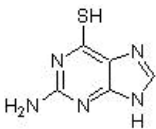


## Product datasheet

# 6-Thioguanine, Antimetabolite ab142729

### Overview

<b>Product name</b>	6-Thioguanine, Antimetabolite
<b>Description</b>	Antimetabolite. Guanine analog.
<b>Biological description</b>	Antimetabolite. Guanine analogue. Incorporates into mitochondrial DNA and induces DNA double-strand breaks. Antitumor, immunosuppressive and anti-inflammatory effects <i>in vivo</i> . Metabolite of Azathioprine ( <a href="#">ab143064</a> ). Orally active.
<b>Purity</b>	> 90%
<b>CAS Number</b>	154-42-7
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	2-Amino-3,7-dihydropurine-6-thione
<b>Molecular weight</b>	167.19
<b>Molecular formula</b>	C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> S
<b>PubChem identifier</b>	2723601
<b>Storage instructions</b>	Store at Room Temperature. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 100mM
<b>Handling</b>	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>SMILES</b>	C1=NC2=C(N1)C(=S)N=C(N2)N
<b>Source</b>	Synthetic

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team