



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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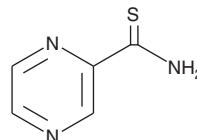
# Product Information



## Pyrazine-2-thio Carboxamide

Item No. 10551

**CAS Registry No.:** 4604-72-2  
**Formal Name:** 2-pyrazinecarbothioamide  
**Synonym:** Pyrazine Carboxylic Acid Thioamide  
**MF:** C<sub>5</sub>H<sub>5</sub>N<sub>3</sub>S  
**FW:** 139.2  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

For long term storage, we suggest that pyrazine-2-thio carboxamide be stored as supplied at -20°C. It should be stable for at least two years.

Pyrazine-2-thio carboxamide is supplied as a crystalline solid. A stock solution may be made by dissolving the pyrazine-2-thio carboxamide in the solvent of choice. Pyrazine-2-thio carboxamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of pyrazine-2-thio carboxamide in ethanol is approximately 0.2 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Pyrazine-2-thio carboxamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pyrazine-2-thio carboxamide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Pyrazine-2-thio carboxamide has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Pyrazine-2-thio carboxamide is a synthetic intermediate useful for pharmaceutical synthesis. Like the related pyrazinamide, pyrazine-2-thio carboxamide has mycobacteriostatic and mycobacteriocidal activities *in vitro*, suggesting that it might be an effective antituberculosis drug.<sup>1</sup>

### Reference

1. Yamamoto, S., Toida, I., Watanabe, N., *et al.* *In vitro* antimycobacterial activities of pyrazinamide analogs. *Antimicrob. Agents Chemother.* **39**(9), 2088-2091 (1995).

### Related Products

4-biphenylthio Carboxamide - Item No. 10550 • 2-Pyridylthioamide - Item No. 13043 • 4-Pyridylthioamide - Item No. 13056 • thio-*m*-Toluthioamide - Item No. 13228 • thio-*p*-Toluamide - Item No. 13229

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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