S-Propargylcysteine

Cat. No.: HY-W001538

CAS No.: 3262-64-4

Molecular Formula: $C_6H_9NO_2S$

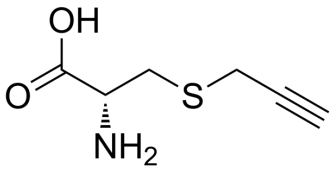
Molecular Weight: 159.21

Target: STAT; MDM-2/p53

Pathway: JAK/STAT Signaling; Stem Cell/Wnt; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 25 mg/mL (157.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.2810 mL	31.4051 mL	62.8101 mL
	5 mM	1.2562 mL	6.2810 mL	12.5620 mL
	10 mM	0.6281 mL	3.1405 mL	6.2810 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

S-Propargylcysteine (SPRC), a structural analog of S-allyl cysteine (SAC), is a slow H_2S-releasing compound. S-Propargylcysteine reduces Ca^{2+} accumulation and inflammatory cytokines, inhibits STAT3, and elevates p53 and Bax. S-Propargylcysteine has anti-inflammatory activity and protects mice against acute pancreatitis. S-Propargylcysteine also has cardioprotective, neuroprotective acitivties[1][2].

REFERENCES

[1]. Sidhapuriwala JN, et al. Effects of S-propargyl-cysteine (SPRC) in caerulein-induced acute pancreatitis in mice. PLoS One. 2012;7(3):e32574.

[2]. Wen YD, et al. The Pharmacological Effects of S-Propargyl-Cysteine, a Novel Endogenous H2S-Producing Compound. Handb Exp Pharmacol. 2015;230:325-36.

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

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