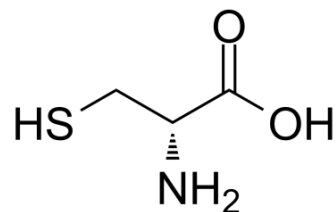


## D-Cysteine

<b>Cat. No.:</b>	HY-W018555		
<b>CAS No.:</b>	921-01-7		
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S		
<b>Molecular Weight:</b>	121.16		
<b>Target:</b>	Endogenous Metabolite; Bacterial		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	D-Cysteine is the D-isomer of cysteine and a powerful inhibitor of <i>Escherichia coli</i> growth. D-cysteine is mediated by D-amino acid oxidase to produce H <sub>2</sub> S and is a neuroprotectant against cerebellar ataxias. D-Cysteine could inhibit the growth and cariogenic virulence of dual-species biofilms formed by <i>S. mutans</i> and <i>S. sanguinis</i> <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

- [1]. Seki T. Availability of D-cysteine as a protectant for cerebellar neurons. *Nihon Yakurigaku Zasshi*. 2019;154(3):133-137.
- [2]. Soutourina J, et al. Role of D-cysteine desulhydrase in the adaptation of *Escherichia coli* to D-cysteine. *J Biol Chem*. 2001 Nov 2;276(44):40864-72.
- [3]. Guo X1, et al. Effect of D-cysteine on dual-species biofilms of *Streptococcus mutans* and *Streptococcus sanguinis*. *Sci Rep*. 2019 Apr 30;9(1):6689.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA