

Captopril disulfide

Chemical Properties

CAS No.:	64806-05-9
Formula:	C ₁₈ H ₂₈ N ₂ O ₆ S ₂
Molecular Weight:	432.55
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Captopril disulfide, a metabolite of Captopril, is a new antihypertensive agent.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.312 mL	11.559 mL	23.119 mL
5 mM	0.462 mL	2.312 mL	4.624 mL
10 mM	0.231 mL	1.156 mL	2.312 mL
50 mM	0.046 mL	0.231 mL	0.462 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bojarska J, Maniukiewicz W, Fruziński A, Sieroń L, Remko M. Captopril and its dimer captopril disulfide: comparative structural and conformational studies. *Acta Crystallogr C Struct Chem*. 2015 Mar;71(Pt 3):199-203. doi: 10.1107/S2053229615002582. Epub 2015 Feb 18. PubMed PMID: 25734850.
2. Mahmoud WM, Kümmerer K. Captopril and its dimer captopril disulfide: photodegradation, aerobic biodegradation and identification of transformation products by HPLC-UV and LC-ion trap-MS(n). *Chemosphere*. 2012 Aug;88(10):1170-7. doi: 10.1016/j.chemosphere.2012.03.064. Epub 2012 Apr 24. PubMed PMID: 22534199.
3. Drummer OH, Jarrott B. Captopril disulfide conjugates may act as prodrugs: disposition of the disulfide dimer of captopril in the rat. *Biochem Pharmacol*. 1984 Nov 15;33(22):3567-71. PubMed PMID: 6095854.
4. Bathala MS, Weinstein SH, Meeker FS Jr, Singhvi SM, Migdalof BH. Quantitative determination of captopril in blood and captopril and its disulfide metabolites in plasma by gas chromatography. *J Pharm Sci*. 1984 Mar;73(3):340-4. PubMed PMID: 6371216.

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