

Product datasheet

Captopril, ACE inhibitor ab141333

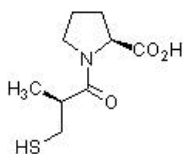
[1 References](#) [1 Image](#)

Overview

Product name	Captopril, ACE inhibitor
Description	Potent ACE inhibitor
Biological description	Potent ACE inhibitor (IC_{50} = 21 nM). Reversible and competitive leukotriene A_4 hydrolase inhibitor (K_i = 6 μ M, leukotriene B4 formation). Vasodilatory and antihypertensive effects <i>in vivo</i> . Orally active.
Purity	> 98%
General notes	In aqueous solution, this product undergoes a free radical dimerisation to form captopril disulfide. This dimerisation is oxygen-facilitated and has been found to be pH dependent and catalysed by metal ions. To delay oxidation use a lower pH (maximum stability at pH <4), incorporate a chelating agent or antioxidant, degas solutions, minimise headspace or increase product concentration.

CAS Number 62571-86-2

Chemical structure



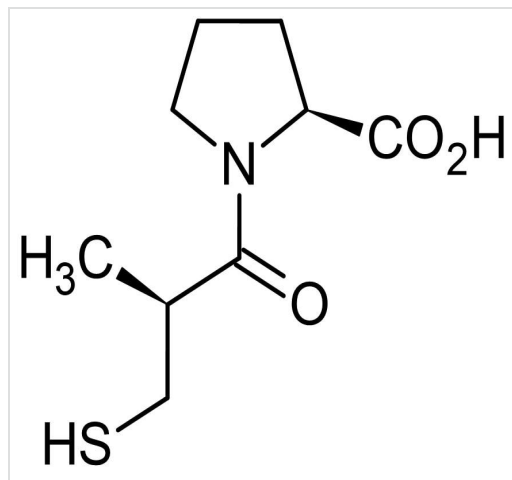
Properties

Chemical name	1-[(2S)-3-Mercapto-2-methyl-1-oxopropyl]-L-proline
Molecular weight	217.28
Molecular formula	C ₉ H ₁₅ NO ₃ S
PubChem identifier	44093
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM, in DMSO to 100 mM and in ethanol to 100 mM
Handling	<p>Unstable; make up solutions fresh and use immediately.</p> <p>Toxic, refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILESOC(=O)[C@@H]1CCCN1C(=O)[C@H](C)CS**Source**

Synthetic

Images



2D chemical structure image of ab141333, Captopril, ACE inhibitor

Chemical Structure - Captopril, ACE inhibitor
(ab141333)

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