

**DATA SHEET**

**Product Name:** Captopril

**Catalog #:** CV-1020

**Alt:** CAS # 62571-86-2; (2S)-1-(3-mercapto-2-methyl-propionyl)-L-proline

**Molecular Mass:** 217.3

**Analysis:** >98% (HPLC, TLC); NMR (Conforms)

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (20 mg/ml); or water (20 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month.

**Description:** Angiotensin-converting enzyme (ACE) inhibitor ( $IC_{50} = 0.022 \mu M$ ). Also inhibits the bifunctional  $Zn^{2+}$ -containing leukotriene  $A_4$  hydrolase/aminopeptidase ( $LTA_4$  hydrolase) reversibly and competitively ( $K_i = 6.0 \mu M$  for leukotriene  $B_4$  formation and  $K_i = 60 nM$  for L-lysine-p-nitroanilide)<sup>2</sup>. Displays vasodilatory and antihypertensive effects *in vivo*. Clinically useful antihypertensive agent.

**References:**

1. Cushman, D.W., et al., (1999) Nat. Med., 5 : 1110
2. Orning, L., et al., (1991) J. Biol. Chem., 266 : 16507

**For research use only. Not for use in humans.**