



LKT Laboratories, Inc.

Temocapril Hydrochloride

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Product Information

Product ID T1750

CAS No. 110221-44-8

Chemical Name

Synonym CS-622

Formula $C_{23}H_{28}N_2O_5S_2 \cdot HCl$

Formula Wt. 513.07

Melting Point 196-200°C (dec)

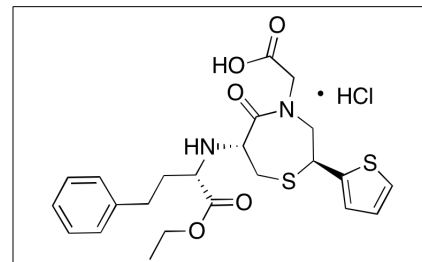
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Temocapril is a thiazepine prodrug that inhibits angiotensin-converting enzyme (ACE). Temocapril exhibits antihypertensive, anti-diabetic, anti-hyperglycemic, and anti-atherosclerotic activities. Temocapril decreases blood pressure without affecting heart rate or cardiac output and improves endothelial dysfunction, vascular remodeling, insulin resistance, and renal function. In animal models, temocapril inhibits elevations in the fasting plasma glucose level and loss of pancreatic β -cells, preventing the development of hyperglycemia. In stroke-prone hypertensive rats, temocapril prolongs survival rates. In other animal models, this compound inhibits oxidative stress and atherosclerotic remodeling. Temocapril also inhibits matrix metalloproteinase 2 (MMP2), decreasing peritoneal solute transport in animal models during peritoneal dialysis, indicating potential benefit in prevention of peritoneal injury.



Bulk quantities available upon request

| Product ID | Size |
|------------|--------|
| T1750 | 10 mg |
| T1750 | 25 mg |
| T1750 | 100 mg |

References Yamamoto D, Takai S, Akimoto T, et al. Matrix metalloproteinase-2 inhibition by temocapril and its important role in peritoneal transport. *Clin Exp Pharmacol Physiol*. 2012 Oct;39(10):864-8. PMID: 23013132.

Kaihara M, Nakamura Y, Sugimoto T, et al. Olmesartan and temocapril prevented the development of hyperglycemia and the deterioration of pancreatic islet morphology in Otsuka-Long-Evans-Tokushima Fatty rats. *Acta Med Okayama*. 2009 Feb;63(1):35-42. PMID: 19247421.

Nozawa M, Sugimoto K, Ohmori M, et al. Dosing time-dependent effect of temocapril on the mortality of stroke-prone spontaneously hypertensive rats. *J Pharmacol Exp Ther*. 2006 Jan;316(1):176-81. PMID: 16174798.

Tsuda M, Iwai M, Li JM, et al. Inhibitory effects of AT1 receptor blocker, olmesartan, and estrogen on atherosclerosis via anti-oxidative stress. *Hypertension*. 2005 Apr;45(4):545-51. PMID: 15723967.

Yasunari K, Maeda K, Nakamura M, et al. Pharmacological and clinical studies with temocapril, an angiotensin converting enzyme inhibitor that is excreted in the bile. *Cardiovasc Drug Rev*. 2004 Fall;22(3):189-98. PMID: 15492767.

Oizumi K, Koike H, Sada T, et al. Pharmacological profiles of CS-622, a novel angiotensin converting enzyme inhibitor. *Jpn J Pharmacol*. 1988 Nov;48(3):349-56. PMID: 2851680.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.