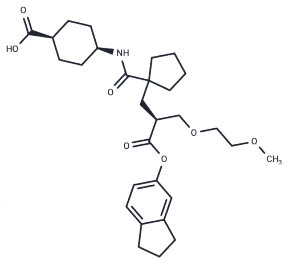
Data Sheet (Cat.No.T10671)

TargetMol

Candoxatril

Chemical Properties



CAS No. : 123122-55-4

Formula: C29H41NO7

Molecular Weight: 515.64

Storage: Store at low temperature
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Candoxatril (UK 79300) is an orally active neutral peptide endonuclease (NEP, EC 3.4.24.11) inhibitor that improves exercise capacity in patients with chronic heart failure undergoing angiotensin-converting enzyme inhibition.
Targets(IC50)	Neprilysin
In vivo	NEP inhibitors do not significantly affect body weight, food and water intake, mean blood pressure, or creatinine levels; however, they increase cGMP levels in urine and exhibit anti-inflammatory effects on hematopoiesis. Additionally, a-SMA deposition in the kidney cortex is inversely correlated with cGMP elevation [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (96.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9393 mL	9.6967 mL	19.3934 mL
5 mM	0.3879 mL	1.9393 mL	3.8787 mL
10 mM	0.1939 mL	0.9697 mL	1.9393 mL
50 mM	0.0388 mL	0.1939 mL	0.3879 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bevan EG, et al. Candoxatril, a neutral endopeptidase inhibitor: efficacy and tolerability in essential hypertension. J Hypertens. 1992 Jul;10(7):607-13.

M Aleksinskaya, et al. Neutral endopeptidase inhibitors SOL-1 and candoxatril counteract kidney fibrosis by reducing myofibroblast formation in mouse UUO model. Bmc Pharmacology & Toxicology , 2013 , 14 (1) :1-2.