
Product Data Sheet

Product Name: Candoxatril (UK 79300)

Cat. No.: GC31608

Chemical Properties

Cas. No. 123122-55-4

SMILES O=C(C1(CCCC1)C[C@@H](COCCOC)C(OC2=CC=C(CCC3)C3=C2)=O)N[C@H]4CC[C@@H](C(O)=O)CC4

Formula	C ₂₉ H ₄₁ NO ₇	M.Wt	515.64
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol**

Mice[2]Mice (n=10 per group) subjected to UUO are treated for 1 week with either Solvent, SOL-1 (NEP-/ECE-inhibitor two doses), Candoxatril (reference NEP inhibitor) or losartan (angiotensin AT1-receptor antagonist) and compared to sham operated animals[2].

Animal experiment:

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

- [1]. Bevan EG, et al. Candoxatril, a neutral endopeptidase inhibitor: efficacy and tolerability in essential hypertension. J Hypertens. 1992 Jul;10(7):607-13.
- [2]. 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.

Background

Candoxatril is a neutral endopeptidase (NEP) inhibitor.

While the NEP inhibitors have no significant effect on body weight, food and water intake, mean blood pressure or creatinine levels, they do increase cGMP levels in the urine and affected hematopoiesis in an anti-inflammatory way. Moreover, α -SMA deposition in the kidney cortex is inversely correlated with cGMP elevation suggesting a NEP dependent antifibrotic effect. High quality mRNA profiles are obtained with at least 8 independent samples per treatment group. The data confirms the cGMP dependent anti-fibrotic action of Sol-1 and further supports the potential therapeutic actions of this neutral endopeptidase inhibitor[2].

- [1]. Bevan EG, et al. Candoxatril, a neutral endopeptidase inhibitor: efficacy and tolerability in essential hypertension. J Hypertens. 1992 Jul;10(7):607-13. [2]. 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.

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