

**Catalog # 10-2049**

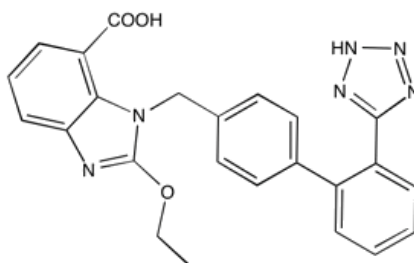
**Candesartan**

CAS# 139481-59-7

2-Ethoxy-1-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid

CV-11974

Lot # X107324



Angiotensin II receptor I (AT<sub>1</sub>) antagonist, IC<sub>50</sub>s=1.12 and 2.86 nM for bovine adrenal cortex and rabbit aorta respectively.<sup>1</sup> Selectively inhibits angiotensin II-induced contraction of rabbit aortic strips with no effect on contraction induced by other agents such as norepinephrine, KCl, serotonin, PGF<sub>2α</sub> or endothelin. Prevents astrocyte and microglial activation and neuroinflammation and improves hippocampal neurogenesis.<sup>2</sup> Attenuates angiogenesis in hepatocellular carcinoma.<sup>3</sup> Clinically useful antihypertensive agent. Ameliorates brain inflammation associated with Alzheimer's disease.<sup>4</sup> Active *in vivo* and orally active.

- 1) Shibouta *et al.* (1993), *Pharmacological profile of a highly potent and long-acting angiotensin II receptor antagonist, 2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazol-7-carboxylic acid (CV-11974), and its prodrug, (+/-)-1-(cyclohexyloxycarbonyloxy)-ethyl 2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate (TCV-116)*; J. Pharmacol. Exp. Therap., **266** 114
- 2) Bhat *et al.* (2017), *Angiotensin receptor Blockade by Inhibiting Glial Activation Promotes Hippocampal Neurogenesis Via Activation of Wnt/B-Catenin signaling in hypertension*; Mol. Neurobiol., **Epub ahead of print**
- 3) Fan *et al.* (2016), *Candesartan attenuates angiogenesis in hepatocellular carcinoma via downregulating AT1R/VEGF pathway*; Biomed. Pharmacother., **83** 704
- 4) Torika *et al.* (2018), *Candesartan ameliorates brain inflammation associated with Alzheimer's disease*; CNS Neurosci. Ther. **24** 231

**PHYSICAL DATA**

Molecular Weight:	440.45
Molecular Formula:	C <sub>24</sub> H <sub>20</sub> N <sub>6</sub> O <sub>3</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**