

PRODUCT: EXP-3174

ALTERNATE NAME: 1-((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-yl)methyl)-2-butyl-4-chloro-1H-imidazole-5-carboxylic acid; Losartan carboxylic acid

CATALOG #: 9672-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₂₁ClN₆O₂

MOLECULAR WEIGHT: 436.90

CAS NUMBER: 124750-92-1

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (>20 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: EXP-3174 is a physiologically active metabolite of losartan, produced by cytochrome P450 isoforms in the liver. EXP-3174 is a potent angiotensin II receptor, type 1 (AT₁) antagonist (K_i = 0.57 and 0.67 nM for rat and human forms, respectively), producing a depressor response and vasodilatation. When administered intravenously, losartan carboxylic acid is more potent and has a longer duration of action than losartan. However, the metabolite has very low oral bioavailability.

REFERENCES: Yasar, U., *et al.* (2001). *Drug Metab. Dispos.* **29**, 1051-1056.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

EXP-3714 (**9672-5, 25**)

Losartan Potassium (**2750-50, 250**)

Valsartan (**2004-25, 100, 500**)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**