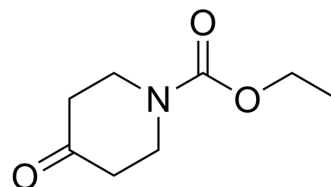


## N-Carbethoxy-4-piperidone

Cat. No.:	HY-Y0217		
CAS No.:	29976-53-2		
Molecular Formula:	C <sub>8</sub> H <sub>13</sub> NO <sub>3</sub>		
Molecular Weight:	171.19		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	N-Carbethoxy-4-piperidone is a metabolite of <a href="#">Loratadine</a> (HY-17043). Loratadine is a selective inverse peripheral histamine H1-receptor agonist, and shows anti-dengue-virus (DENV) activity <sup>[1][2][3]</sup> .
<b>In Vitro</b>	N-Carbethoxy-4-piperidone (piperidinone 4) shows toxicity to <i>C. dubia</i> , <i>B. calyciflorus</i> and <i>P. subcapitata</i> <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Ilesce MR, et al. Ecotoxic effects of loratadine and its metabolic and light-induced derivatives. *Ecotoxicol Environ Saf.* 2019 Apr 15;170:664-672.
- [2]. Kay GG, et al. Loratadine: a non-sedating antihistamine. Review of its effects on cognition, psychomotor performance, mood and sedation. *Clin Exp Allergy.* 1999 Jul;29 Suppl 3:147-50.
- [3]. Menardo JL, et al. A review of loratadine in the treatment of patients with allergic bronchial asthma. *Clin Ther.* 1997 Nov-Dec;19(6):1278-93; discussion 1523-4.
- [4]. Monroe EW. Loratadine in the treatment of urticaria. *Clin Ther.* 1997 Mar-Apr;19(2):232-42.

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

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