

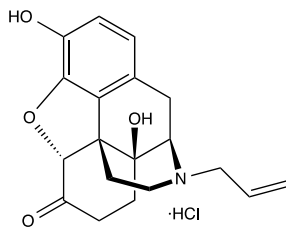
**Catalog # 10-2442**

**Naloxone HCl**

CAS# 357-08-4

(5 $\alpha$ )-4,5-Epoxy-3,14-dihydro-17-(2-propenyl)morphinan-6-one hydrochloride

Lot # X101440



Pan-opioid receptor antagonist,  $K_i$ =3.7, 9.2 and 33 nM for  $\mu$ ,  $\kappa$  and  $\delta$  opioid receptors respectively<sup>1</sup>. In clinical use in opiate abuse and overdose rescue.<sup>2</sup> Blocks opiate- promoted wound healing.<sup>3</sup> Attenuates the pruritic response to rimonabant in a rat model.<sup>4</sup>

- 1) Le Bourdonnec *et al.*, (2008), *Novel trans-3,4-dimethyl-4-(3-hydroxyphenyl)piperidines as mu opioid receptor antagonists with improved opioid receptor selectivity profiles*: Bioorg. Med. Chem. Lett. **18** 2006
- 2) Boyer *et al.* (2012), *Management of opioid analgesic overdose*; New Engl. J. Med. **367** 146
- 3) Wang *et al.* (2017), *Opioids and opioid receptors orchestrate wound repair*; Transl. Res. **185** 13
- 4) Wright and Rodgers (2013), *Low dose naloxone attenuates the pruritic but not anorectic response to rimonabant in male rats*; Psychopharmacology (Berl.) **226** 415

**PHYSICAL DATA**

Molecular Weight:	363.84
Molecular Formula:	C <sub>19</sub> H <sub>21</sub> NO <sub>4</sub> ·HCl
Purity:	>99% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml); water (>25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions 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.**