

Catalogue Number	Product	Order number / Unit
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4500 Norbinaltorphimine dihydrochloride**4500.0010: 10 mg per vial**
Please inquire for customized filling and bulk quantities.**Highly selective kappa opioid receptor antagonist****Molar Mass:** 734.71 $C_{40}H_{43}N_3O_6 \cdot 2 HCl$

[113158-34-2]

[105618-26-6] (free base)

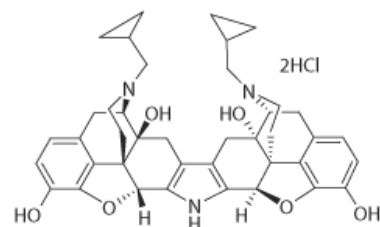
Tan solid packaged in dark glass screw cap vials.

Purity: > 95 %**Certificates:**CoA; ¹H NMR spectrum**Chemical Name:**

CA index name: 4,8:11,15-Dimethano-20H-bisbenzofuro[2,3-a:3',2'-i]dipyrido[4,3-b:3',4'-h]carbazole-1,8a,10a,18-tetrol, 7,12-bis(cyclopropylmethyl)-5,6,7,8,9,10,11,12,13,14,19a,20b-dodecahydro-, hydrochloride (1:2), (4bS,8R,8aS,10aS,11R,14aS,19aR,20bR)-

Synonymes:

NorBNI; N-Desmethylbinaltorphimine; N-Demethylbinaltorphimine dihydrochloride

Literature:Portoghese P.S. et al. Binaltorphimine and nor-binaltorphimine, potent and selective kappa-opioid receptor antagonists. *Life Sci.* 1987, 40, 1287-1292.Takemori A.E. et al. Nor-binaltorphimine, a highly selective kappa-opioid antagonist in analgesic and receptor binding assays. *J. Pharmacol. Exp. Ther.* 1988, 246, 255-258.Lambert P.D. et al. The effect of central blockade of kappa-opioid receptors on neuropeptide Y-induced feeding in the rat. *Brain Res.* 1993, 629, 146-148.

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