

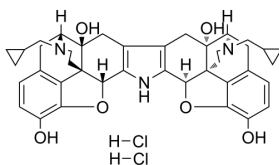
## Norbinaltorphimine dihydrochloride

Cat. No.:	HY-100903
CAS No.:	113158-34-2
Batch No.:	259428
Chemical 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)-

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>40</sub> H <sub>45</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	734.71
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

#### Chemical Structure:



### ANALYTICAL DATA

Appearance:	Light yellow to gray (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
LCMS:	Consistent with structure
Purity (LCMS):	98.17%
Conclusion:	The product has been tested and complies with the given specifications.

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

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