

**Product Name:** (+)-SK&F 10047 hydrochloride

**Catalog No.:** 1079

**Batch No.:** 6

CAS Number: 133005-41-1

IUPAC Name: (2S,6S,11S)-1,2,3,4,5,6-Hexahydro-6,11-dimethyl-3-(2-propenyl)-2,6-methano-3-benzazocin-8-ol hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>23</sub>NO.HCl.¼H<sub>2</sub>O

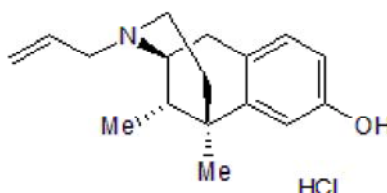
**Batch Molecular Weight:** 298.34

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +89.5 (Concentration = 1, Solvent = Ethanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.44	8.28	4.69
Found	68.56	8.38	4.64

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Prototypical  $\sigma_1$  receptor agonist. Behaviorally active in animal models of memory and stress.

**Physical and Chemical Properties:**

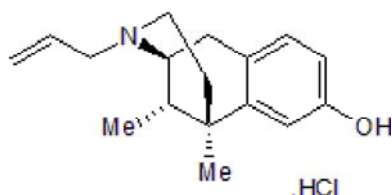
Batch Molecular Formula: C<sub>17</sub>H<sub>23</sub>NO.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 298.34

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Kamei *et al*** (1996) (+)-SKF-10,047 and dextromethorphan ameliorate conditioned fear stress via DArgic systems linked to phenytoin-regulated  $\sigma_1$  sites. *Eur.J.Pharmacol.* **309** 149. PMID: 8874133.

**Matsuno *et al*** (1995) Involvement of  $\sigma_1$  receptor in (+)-N-allylnormetazocine-stimulated hippocampal cholinergic functions in rats. *Brain Res.* **690** 200. PMID: 8535837.

**Walker *et al*** (1990) Sigma receptors: biology and function. *Pharmacol.Rev.* **42** 355. PMID: 1964225.

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