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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **Xaliproden hydrochloride** **Catalog No.: 2491** **Batch No.: 2**

CAS Number: 90494-79-4

IUPAC Name: 1,2,3,6-Tetrahydro-1-[2-(2-naphthalenyl)ethyl]-4-[3-(trifluoromethyl)phenyl]-pyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{22}F_3N.HCl$

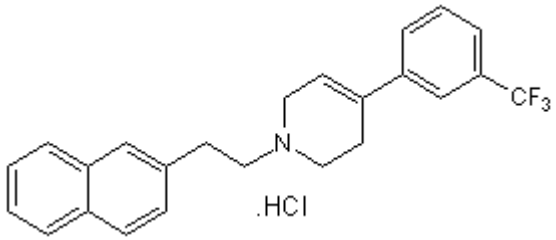
Batch Molecular Weight: 417.9

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.8 (Dichloromethane:Methanol [19:1])

HPLC: Shows >99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	68.98	5.55	3.35	8.48
Found	69.26	5.57	3.38	8.36

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Description:

Orally active, full agonist at 5-HT_{1A} receptors. Binds rat 5-HT_{1A} with high affinity (K_i = 2.0 nM) and is > 300-fold selective over other 5-HT receptor subtypes (IC_{50} > 650 nM). Increases motoneuron survival and promotes effects of NGF on neurite outgrowth in vitro. Displays neurotrophic activity in several neurodegenerative models in vivo. .

Physical and Chemical Properties:

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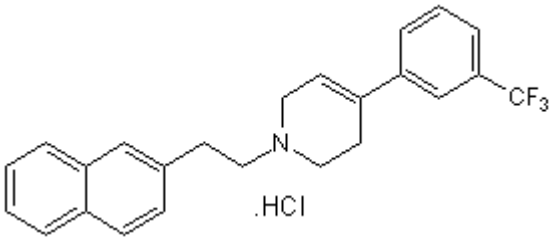
Batch Molecular Weight: 417.9

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

Fournier *et al* (1993) Protective effects of SR 57746A in central and peripheral models of neurodegenerative disorders in rodents and primates. Neuroscience ***55*** 629. PMID: 8413926.

Bachy *et al* (1993) Biochemical and electrophysiological properties of SR 57746A, a new, potent 5-HT_{1A} receptor agonist. Fund.Clin.Pharmacol. ***7*** 487.

Duong *et al* (1999) Effect of the nonpeptide neurotrophic compound SR 57746A on the phenotypic survival of purified mouse motoneurons. Br.J.Pharmacol. ***128*** 1385. PMID: 10602316.