

Certificate of Analysis

Product Name: Y-25130 hydrochloride

Catalog No.: 0380

Batch No.: 4

CAS Number: 123040-16-4

IUPAC Name: *N*-(1-Azabicyclo[2.2.2]oct-3-yl)-6-chloro-4-methyl-3-oxo-3,4-dihydro-2*H*-1,4-benzoxazine-8-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀ClN₃O₃.HCl

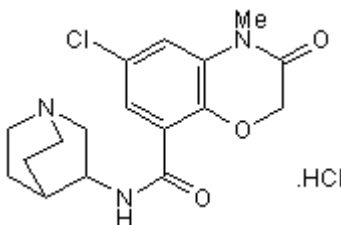
Batch Molecular Weight: 386.28

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 10 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.86	5.48	10.88
Found	52.82	5.62	10.71

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Description:

A selective and potent 5-HT₃ antagonist (K_i = 2.9 nM).

Physical and Chemical Properties:

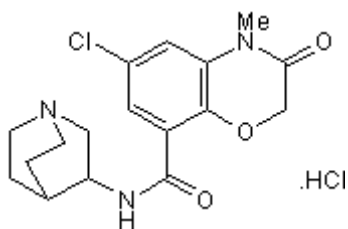
Batch Molecular Formula: C₁₇H₂₀ClN₃O₃.HCl

Batch Molecular Weight: 386.28

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 10 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:

Fukuda et al (1991) The antiemetic profile of Y-25130, a new selective 5-HT₃ receptor antagonist. *Eur.J.Pharmacol.* **196** 299. PMID: 1654255.

Sato et al (1992) Antagonistic activity of Y-25130 on 5-HT₃ receptors. *Jpn.J.Pharmacol.* **59** 443. PMID: 1331590.

Haga et al (1993) The effects of orally administered Y-25130, a selective serotonin₃ receptor antagonist on chemotherapeutic agent-induced emesis. *Jpn.J.Pharmacol.* **63** 377. PMID: 8107329.

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