

Certificate of Analysis

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Product Name: CP 93129 dihydrochloride

Catalog No.: 1032

Batch No.: 3

CAS Number: 879089-64-2

IUPAC Name: 1,4-Dihydro-3-(1,2,3,6-tetrahydro-4-pyridinyl)-5H-pyrrol[3,2-b]pyridin-5-one dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₃N₃O.2HCl.¾H₂O

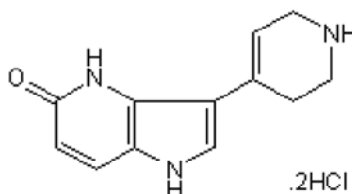
Batch Molecular Weight: 301.69

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	47.78	5.51	13.93	23.5
Found	47.56	5.56	13.66	23.14

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Description:

Potent and highly selective 5-HT_{1B} agonist (K_i values are 8.1, 1100, 1500, 2900 and 7200 nM for 5-HT_{1B}, 5-HT_{1D}, 5-HT_{1A}, 5-HT_{1C} and 5-HT₂, respectively). Reduces food intake and decreases body weight in rats.

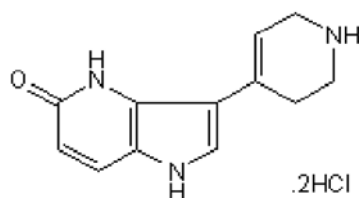
Physical and Chemical Properties:

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Physical Appearance: Beige solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

water 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Hamid *et al* (2014) Modulation of neurotransmission by GPCRs is dependent upon the microarchitecture of the primed vesicle complex. *J Neurosci.* **34** 260. PMID: 24381287 .

Lee *et al* (1998) Infusion of the serotonin_{1B} (5-HT_{1B}) agonist CP-93,129 into the parabrachial nucleus potently and selectively reduces food intake in rats. *Psychopharmacology* **136** 304. PMID: 9566817.

Koe *et al* (1992) Biochemical and behavioral studies of the 5-HT_{1B} receptor agonist, CP-94,253. *Drug Development Research* **26** 241.

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