FOCR a biotechr

CAS Number:

Storage:

Certificate of Analysis

www.tocris.com

Print Date: Mar 24th 2022

Product Name: Buprenorphine hydrochloride

53152-21-9

Catalog No.: 2808

Batch No.: 4

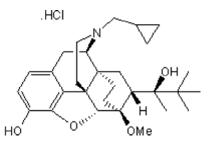
EC Number: 258-396-8

IUPAC Name: $[5\alpha,7\alpha(S)]$ -17-(Cyclopropylmethyl)- α -(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6methoxy-a-methyl-6,14-ethenomorphinan-7-methanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₉ H ₄₁ NO ₄ .HCI
Batch Molecular Weight:	504.1
Physical Appearance:	White solid
Solubility:	water to 25 mM ethanol to 50 mM

Store at RT



50 mM

2. ANALYTICAL DATA

Batch Molecular Structure:

HPLC: **Optical Rotation:**

Shows >99% purity $[\alpha]_D$ = -94.8 (Concentration = 2.5, Solvent = Ethanol)

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

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DC.K biotechne

Product Information

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Print Date: Mar 24th 2022

Product Name: Buprenorphine hydrochloride

CAS Number: **IUPAC Name:** 53152-21-9

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 $[5\alpha,7\alpha(S)]-17-(Cyclopropylmethyl)-\alpha-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6$ methoxy-α-methyl-6,14-ethenomorphinan-7-methanol hydrochloride

Description:

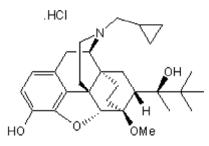
Buprenorphine hydrochloride is a ORL1 receptor agonist that also displays mixed antagonist/partial agonist activity at κ , δ and µ-opioid receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₄₁NO₄.HCI Batch Molecular Weight: 504.1 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 mM ethanol to 50 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 3 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Tzschentke (2002) Behavioral pharmacology of Bupren., with a focus on preclinical models of reward and addiction. Psychopharmacology 161 1. PMID: 11967625.

Wnendt et al (1999) Agonist effect of Bupren. in a nociceptin/OFQ receptor-triggered reporter gene assay. Mol.Pharmacol. 56 334. PMID: 10419552.

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