

Product Name: JMS 17-2 hydrochloride

Catalog No.: 6378

Batch No.: 1

CAS Number: 2341841-07-2

IUPAC Name: 5-[3-[4-(4-Chlorophenyl)-1-piperidinyl]propyl]pyrrolo[1,2-a]quinoxalin-4(5H)-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₆ClN₃O·HCl·½H₂O

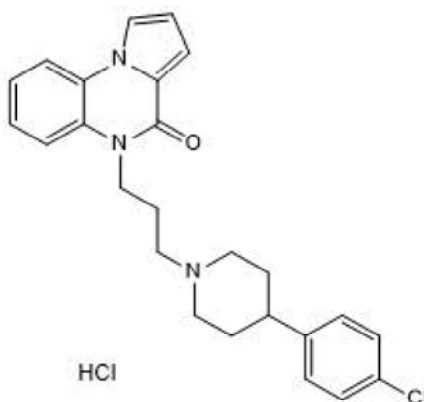
Batch Molecular Weight: 465.42

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.52	6.06	9.03
Found	64.47	6.18	9.13

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

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IUPAC Name: 5-[3-[4-(4-Chlorophenyl)-1-piperidinyl]propyl]pyrrolo[1,2-a]quinoxalin-4(5H)-one hydrochloride

Description:

JMS 17-2 hydrochloride is a chemokine CX3CR1 (fractalkine receptor) antagonist. Inhibits fractalkine-induced ERK phosphorylation and decreases migration of breast cancer cells in vitro. Also inhibits circulating tumor cells from seeding into bone and reduces overall tumor burden in a breast cancer metastasis model.

Physical and Chemical Properties:

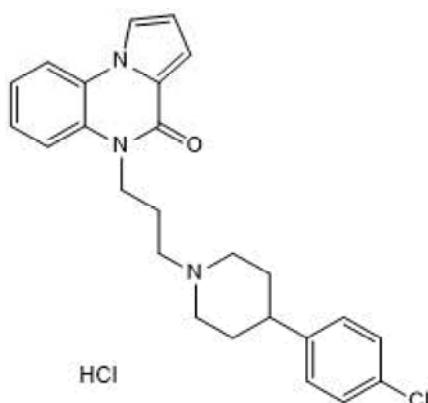
Batch Molecular Formula: C₂₅H₂₆ClN₃O.HCl.½H₂O

Batch Molecular Weight: 465.42

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 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.

Licensing Information:

Sold under license from Drexel University.

References:

Shen *et al* (2016) Novel small-molecule CX3CR1 antagonist impairs metastatic seeding and colonization of breast cancer cells. *Mol. Cancer Res.* **14** 518. PMID: 27001765.

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