

Product Name: TASP 0390325

Catalog No.: 5729

Batch No.: 1

CAS Number: 1642187-96-9

IUPAC Name: 2-(3-Chloro-4-fluorophenyl)-N-(1-methylethyl)-6-[3-(4-morpholinyl)propoxy]-4-oxo-pyrido[2,3-d]pyrimidine-3(4H)-acetamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₉ClFN₅O₄.HCl.1¾H₂O

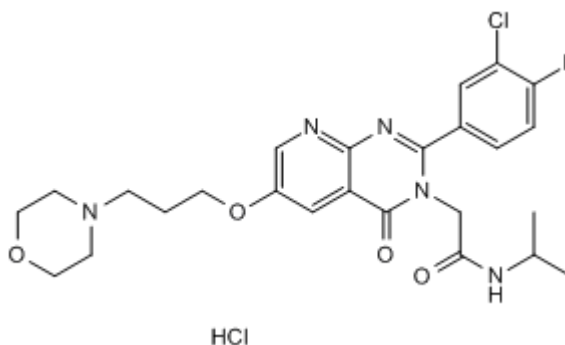
Batch Molecular Weight: 585.96

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.24	5.76	11.95
Found	51.14	5.63	12.09

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Description:

Potent and selective V_{1B} receptor antagonist (IC₅₀ = 2.22 nM for rat pituitary receptor). Exhibits no significant affinity for 85 other receptors, ion channels and transporters at 10 μM, including V_{1A} and V₂. Increases ACTH levels in rats. Orally bioavailable. Antidepressant and anxiolytic.

Physical and Chemical Properties:

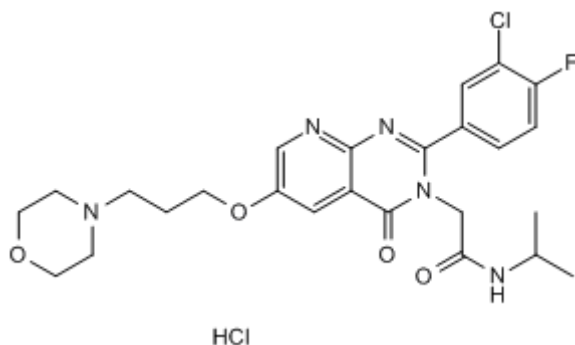
Batch Molecular Formula: C₂₅H₂₉ClFN₅O₄·HCl·1¼H₂O

Batch Molecular Weight: 585.96

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM
DMSO 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.

References:

Iijima *et al* (2014) Antidepressant and anxiolytic profiles of newly synthesized arginine vasopressin V_{1B} receptor antagonists: TASP0233278 and TASP0390325. *Br J Pharmacol.* **171** 3511. PMID: 24654684.

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