

Product Name: GW 791343 hydrochloride

Catalog No.: 3385

Batch No.: 1

CAS Number: 309712-55-8

IUPAC Name: 2-[(3,4-Difluorophenyl)amino]-N-[2-methyl-5-(1-piperazinylmethyl)phenyl]-acetamide trihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄F₂N₄O.3HCl.H₂O

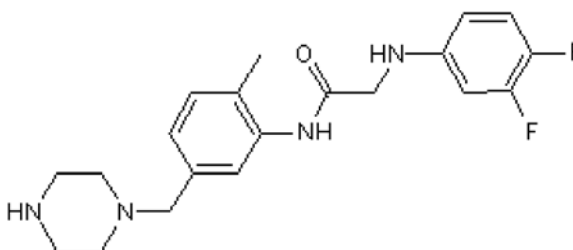
Batch Molecular Weight: 501.83

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Chloroform:Methanol [95:5])

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.87	5.82	11.16
Found	47.52	5.95	11.13

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

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Description:

P2X₇ allosteric modulator. Exhibits species-specific activity; acts as a negative allosteric modulator of human P2X₇ (pIC₅₀ = 6.9 - 7.2) and a positive allosteric modulator of rat P2X₇.

Physical and Chemical Properties:

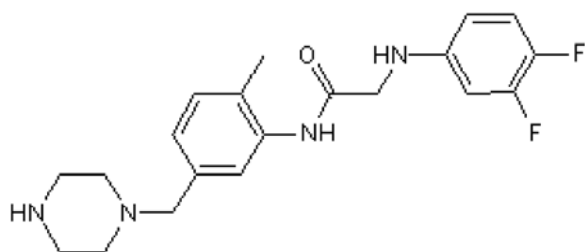
Batch Molecular Formula: C₂₀H₂₄F₂N₄O.3HCl.H₂O

Batch Molecular Weight: 501.83

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Michel *et al* (2008) Negative and positive allosteric modulators of the P2X₇ receptor. *Br.J.Pharmacol.* **153** 737. PMID: 18071294.

Michel *et al* (2008) Identification of regions of the P2X₇ receptor that contribute to human and rat species differences in antagonist effects. *Br.J.Pharmacol.* **155** 738. PMID: 18660826.

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