

Certificate of Analysis

Product Name: AZ 10606120 dihydrochloride

Catalog No.: 3323

Batch No.: 3

CAS Number: 607378-18-7

IUPAC Name: *N*-[2-[[2-[(2-Hydroxyethyl)amino]ethyl]amino]-5-quinolinyl]-2-tricyclo[3.3.1.1^{3,7}]dec-1-ylacetamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₄N₄O₂·2HCl·2¾H₂O

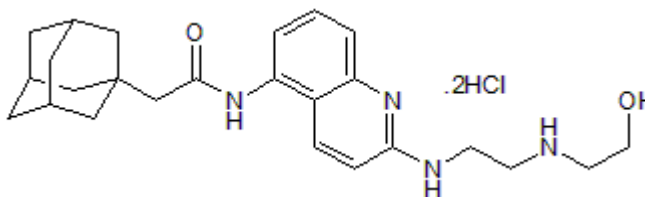
Batch Molecular Weight: 545.02

Physical Appearance: Off White solid

Solubility: water to 25 mM
DMSO to 100 mM

Storage: Desiccate at RT

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	55.09	7.67	10.28
Found	55.12	7.69	10.31

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

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Description:

Potent P2X₇ receptor antagonist (K_D values are 1.4 and 19 nM at human and rat P2X₇ receptors respectively). Binds in a positive cooperative manner to sites distinct from, but coupled to, the ATP binding site and acts as a negative allosteric modulator. Inhibits tumor growth and displays antiangiogenic effects in mice.

Physical and Chemical Properties:

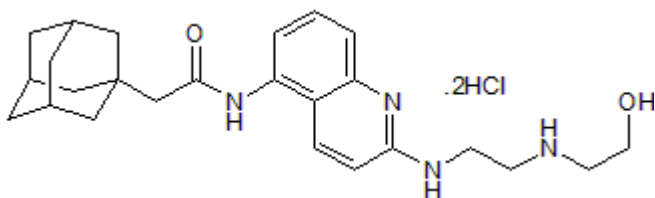
Batch Molecular Formula: C₂₅H₃₄N₄O₂·2HCl·2¾H₂O

Batch Molecular Weight: 545.02

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 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.

Licensing Information:

Sold for research purposes under agreement from AstraZeneca

References:

Adinolfi et al (2012) Expression of P2X₇ receptor increases *in vivo* tumor growth. *Cancer Res.* **72** 2957. PMID: 22505653.

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

Michel et al (2007) Direct labelling of the human P2X₇ receptor and identification of positive and negative cooperativity of binding. *Br.J.Pharmacol.* **151** 103. PMID: 17339830.

Michel and Fonfria (2007) Agonist potency at P2X₇ receptors is modulated by structurally diverse lipids. *Br.J.Pharmacol.* **152** 523. PMID: 17700717.

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