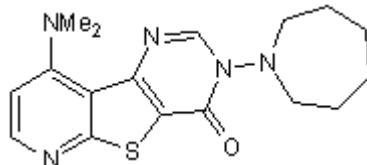


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** A 841720**Catalog No.:** 3060**Batch No.:** 1

CAS Number: 869802-58-4

IUPAC Name: 9-(Dimethylamino)-3-(hexahydro-1*H*-azepin-1-yl)pyrido[3',2':4,5]thieno[3,2-*d*]pyrimidin-4(3*H*)-one**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>17</sub>H<sub>21</sub>N<sub>5</sub>OS**Batch Molecular Weight:** 343.45**Physical Appearance:** White solid**Solubility:** DMSO to 50 mM  
ethanol to 50 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 98.7% purity**<sup>1</sup>H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:**

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

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**Description:**

Potent, non-competitive mGlu<sub>1</sub> receptor antagonist that displays 34-fold selectivity over mGlu<sub>5</sub> (IC<sub>50</sub> values are 10 and 342 nM respectively). Displays no significant activity at a range of other GPCRs, ion channels and transporters. Exhibits analgesic effects; decreases mechanical allodynia in models of neuropathic pain. Also impairs cognitive function.

**Physical and Chemical Properties:**

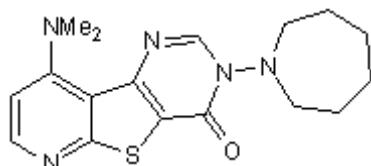
Batch Molecular Formula: C<sub>17</sub>H<sub>21</sub>N<sub>5</sub>OS

Batch Molecular Weight: 343.45

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 50 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.

**References:**

**Zheng et al** (2005) Structure-activity relationship of triazafluorenone derivatives as potent and selective mGluR1 antagonists. *J.Med.Chem.* **48** 7374. PMID: 16279797.

**EI-Kouhen et al** (2006) Blockade of mGluR1 receptor results in analgesia and disruption of motor and cognitive performances: effects of A-841720, a novel non-competitive mGluR1 receptor antagonist. *Br.J.Pharmacol.* **149** 761. PMID: 17016515.

**More et al** (2007) Comparison of the mGluR1 antagonist A-841720 in rats models of pain and cognition. *Behav.Pharmacol.* **18** 273. PMID: 17551319.

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