Print Date: Dec 14th 2011

Certificate of Analysis

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Product Name: 5-BDBD **Catalog No.: 3579** **Batch No.: 1**

CAS Number: 768404-03-1

IUPAC Name: 5-(3-Bromophenyl)-1,3-dihydro-2*H*-benzofuro[3,2-e]-1,4-diazepin-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{11}BrN_2O_2$

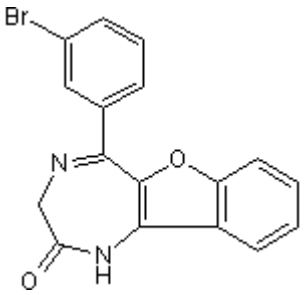
Batch Molecular Weight: 355.19

Physical Appearance: cream crystalline solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Ethyl acetate:Chloroform 1:5)

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.49	3.12	7.89
Found	57.21	2.96	7.69

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Description:

Potent $P2X_4$ receptor antagonist. Blocks $P2X_4$-mediated currents in Chinese hamster ovary cells (IC_{50} = 0.50 µM).

Physical and Chemical Properties:

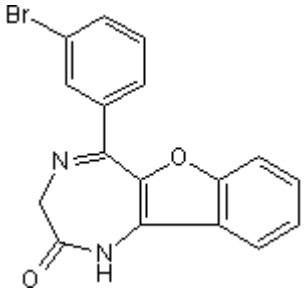
Batch Molecular Formula: $C_{17}H_{11}BrN_2O_2$

Batch Molecular Weight: 355.19

Physical Appearance: cream crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Useage Info:

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:

Donnelly-Roberts *et al* (2008) Painful purinergic receptors. J.Pharmacol.Exp.Ther. ***324*** 409. PMID: 18042830.

Casati *et al* (2011) Cell-autonomous regulation of hematopoietic stem cell cycling activity by ATP. Cell Death Differ. ***18*** 396. PMID: 20798687.