

Product Name: Ro 5-3335

Catalog No.: 4694

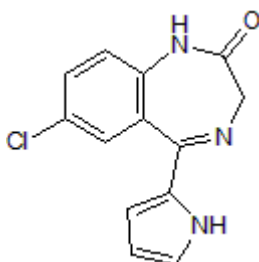
Batch No.: 1

CAS Number: 30195-30-3

IUPAC Name: 7-Chloro-1,3-dihydro-5-(1*H*-pyrrol-2-yl)-2*H*-1,4-benzodiazepin-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₀ClN₃O
Batch Molecular Weight: 259.63
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.67 (Ethyl acetate:Petroleum ether [1:2])
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.12	3.88	16.18
Found	59.88	3.85	15.94

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

Product Name: Ro 5-3335

Catalog No.: 4694 **Batch No.:** 1

CAS Number: 30195-30-3

IUPAC Name: 7-Chloro-1,3-dihydro-5-(1H-pyrrol-2-yl)-2H-1,4-benzodiazepin-2-one

Description:

Core binding factor (CBF) inhibitor; preferentially kills human leukemia cell lines with CBF fusion proteins ($IC_{50} = 1.1 \mu M$). Represses RUNX1/CBF β -dependent transactivation in reporter assays and inhibits transcriptional regulation by RUNX1 and CBF β . Reduces leukemia burden in a mouse model. Attenuates RUNX1-dependent hematopoiesis in zebrafish embryos. Also a Tat antagonist; inhibits HIV-1 replication in vitro.

Physical and Chemical Properties:

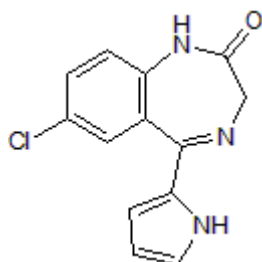
Batch Molecular Formula: C₁₃H₁₀ClN₃O

Batch Molecular Weight: 259.63

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage 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:

Cupelli et al (1995) The human immunodeficiency virus type 1 Tat antagonist, Ro 5-3335, predominantly inhibits transcription initiation from the viral promoter. *J.Virol.* **69** 2640. PMID: 7884917.

Cunningham et al (2012) Identification of benzodiazepine Ro5-3335 as an inhibitor of CBF leukemia through quantitative high throughput screen against RUNX1-CBF β interaction. *Proc.Natl.Acad.Sci.USA* **109** 14592. PMID: 22912405.

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

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSYSTEMS.com

