

**Product Name:** L-371,257

**Catalog No.:** 2410

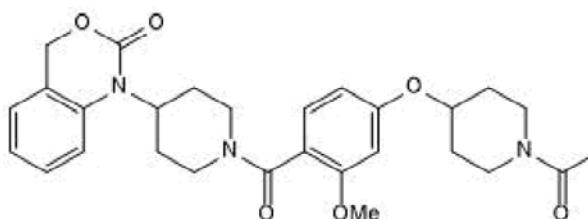
**Batch No.:** 3

CAS Number: 162042-44-6

IUPAC Name: 1-[4-[(1-Acetyl-4-piperidinyloxy]-2-methoxybenzoyl]-4-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)piperidine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>33</sub>N<sub>3</sub>O<sub>6</sub>·½H<sub>2</sub>O  
**Batch Molecular Weight:** 516.6  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 5 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.1	6.63	8.13
Found	65.13	6.54	8.21

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

**Product Name:** L-371,257

**Catalog No.:** 2410

**Batch No.:** 3

CAS Number: 162042-44-6

IUPAC Name: 1-[4-[(1-Acetyl-4-piperidinyloxy]-2-methoxybenzoyl]-4-(2-oxo-2H-3,1-benzoxazin-1(4H)-yl)piperidine

**Description:**

Potent, high affinity human oxytocin (OT) receptor antagonist ( $K_i = 4.6$  nM) that displays > 800-fold selectivity over human arginine vasopressin receptors  $V_{1a}$  and  $V_2$ . Antagonizes oxytocin-induced contractions in isolated rat uterine tissue ( $pA_2 = 8.44$ ) and in anesthetised rats following intravenous and intraduodenal administration. Decreases length of U-87MG cell projections induced by retinoic acid (Cat.No.0695). Orally active.

**Physical and Chemical Properties:**

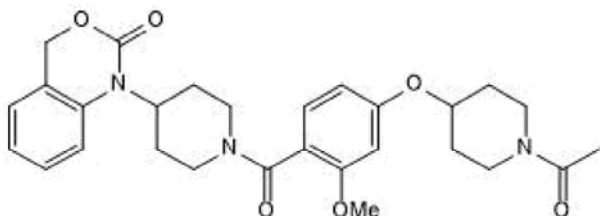
Batch Molecular Formula:  $C_{28}H_{33}N_3O_6 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 516.6

Physical Appearance: Off-white solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 5 mM with gentle warming

**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:**

**Tahara et al** (2000) Pharmacologic characterization of the oxyt. receptor in human uterine smooth muscle cells. *Br.J.Pharmacol.* **129** 131. PMID: 10694212.

**Tahara et al** (1999) Comparison of vasopressin binding sites in human uterine and vascular smooth muscle cells. *Eur.J.Pharmacol.* **378** 137. PMID: 10478574.

**Williams et al** (1995) 1-[4-[N-acetyl-4-piperidinyloxy]-2-methoxybenzoyl]piperidin-4-yl]-4H-3,1-benzoxazin-2(1H)-one (L-371,257): a new, orally bioavailable, non-peptide oxyt. antagonist. *J.Med.Chem.* **38** 4634. PMID: 7473590.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956