# TOCR a biotechne

### Print Date: Mar 3rd 2023

Batch No.: 1

## **Certificate of Analysis**

## www.tocris.com

Catalog No.: 3865

## Product Name: Licarbazepine

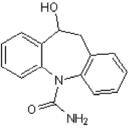
CAS Number: 29331-92-8

IUPAC Name: 10,11-Dihydro-10-hydroxy-5H-dibenz(Z)[b,f]azepin-5-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: **Batch Molecular Weight:** Physical Appearance: Solubility: Storage: **Batch Molecular Structure:** 

 $C_{15}H_{14}N_2O_2$ 254.28 White solid DMSO to 100 mM Store at RT



## 2. ANALYTICAL DATA

HPLC: Shows 99.9% purity <sup>1</sup>H NMR: Consistent with structure Mass Spectrum: Microanalysis:

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956





Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	70.85	5.55	11.02
Found	70.46	5.57	10.97

# TOCRIS a biotechne brand

## **Product Information**

### Print Date: Mar 3rd 2023

1

## www.tocris.com

## Product Name: Licarbazepine

CAS Number: 29331-92-8

IUPAC Name: 10,11-Dihydro-10-hydroxy-5*H*-dibenz(*Z*)[*b*,*f*]azepin-5-carboxamide

### **Description:**

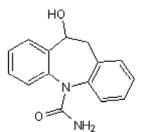
Licarbazepine is an active metabolite of oxcarbazepine (Cat. No. 3864). Produces dose-dependent inhibition of glutamatergic excitatory postsynaptic potentials (EPSPs). Displays anticonvulsant activity; exhibits minor potentiation of GABA<sub>A</sub> receptor currents.

### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub> Batch Molecular Weight: 254.28 Physical Appearance: White solid

#### Minimum Purity: ≥98%

### **Batch Molecular Structure:**



### Storage: Store at RT

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).

Catalog No.: 3865

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* (2009) Oxcarbazepine, not its active metabolite, potentiates GABA<sub>A</sub> activation and aggravates absence seizures. Epilepsia **50** 83. PMID: 18717705.

**Benes** *et al* (1999) Anticonvulsant and sodium channel-blocking properties of novel 10,11-dihydro-5*H*-dibenz[*b*,*f*]azepine-5-carboxamide derivatives. J.Med.Chem. **42** 2582. PMID: 10411478.

**Calabresi** *et al* (1995) Action of GP 47779, the active metabolite of oxcarbazepine, on the corticostriatal system. I. Modulation of corticostriatal synaptic transmission. Epilepsia **36** 990. PMID: 7555963.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956