TOCRIS a biotechne brand

Print Date: Sep 17th 2020

Catalog No.: 0464

Certificate of Analysis

www.tocris.com

Batch No.: 8

Product Name: Capsazepine

CAS Number: 138977-28-3

IUPAC Name: N-[2-(4-Chlorophenyl)ethyl]-1,3,4,5-tetrahydro-7,8-dihydroxy-2H-2-benzazepine-2-carbothioamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: C₁₉H₂₁CIN₂O₂S.½H₂O 385.91 Off White solid ethanol to 25 mM DMSO to 100 mM Store at RT

HO HO s CI

2. ANALYTICAL DATA

TLC:Rf = 0.6 (Dichlorom)HPLC:Shows >99.3% puri¹H NMR:Consistent with strueMass Spectrum:Consistent with strueMicroanalysis:Carbon Hyperback

 $R_{f} = 0.6 \text{ (Dichloromethane:Methanol [9:1])}$ Shows >99.3% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 59.14 5.75 7.26
Found 59.36 5.49 7.25

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

TOCRIS a biotechne brand

Print Date: Sep 17th 2020

Batch No.: 8

www.tocris.com

Product Name: Capsazepine

CAS Number: 138977-28-3

N-[2-(4-Chlorophenyl)ethyl]-1,3,4,5-tetrahydro-7,8-dihydroxy-2H-2-benzazepine-2-carbothioamide

Description:

IUPAC Name:

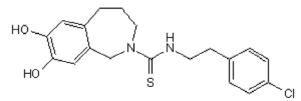
Selective vanilloid receptor antagonist (K_i = 3.2 μ M). Inhibits carrageenan inflammation-induced hyperalgesic responses in the rat. Also activates amiloride-sensitive epithelial Na⁺ channel ENaC δ .

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₁ClN₂O₂S.½H₂O Batch Molecular Weight: 385.91 Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info: ethanol to 25 mM 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 $45-60^{\circ}C$ water bath).

Catalog No.: 0464

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:

Yamamura *et al* (2004) Capsazepine is a novel activator of the δ subunit of the human epithelial Na⁺ channel. J.Biol.Chem. **279** 44483. PMID: 15308635.

Kwak *et al* (1998) A capsaicin-receptor antagonist, capsazepine, reduces inflammation-induced hyperalgesic responses in the rat: evidence for an endogenous capsaicin-like substance. Neuroscience **86** 619. PMID: 9881874.

Dickenson and Dray (1991) Selective antagonism of capsaicin by capsazepine: evidence for a spinal receptor site in capsaicin-induced antinociception. Br.J.Pharmacol. **104** 1045. PMID: 1810591.

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