TOCRIS a biotechne brand

Print Date: Sep 30th 2022

Certificate of Analysis

www.tocris.com

Batch No.: 1

Catalog No.: 6271

Product Name: ST 034307

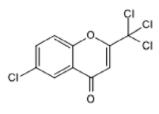
CAS Number: 133406-29-8 IUPAC Name: 6-Chloro-2-(trichloromet

6-Chloro-2-(trichloromethyl)-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₀H₄Cl₄O₂ 297.95 Beige solid DMSO to 100 mM ethanol to 20 mM Store at -20°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.6% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen

 Theoretical
 40.31
 1.35

 Found
 40.43
 1.23

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

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Product Information

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Product Name: ST 034307

CAS Number: 133406-29-8

IUPAC Name: 6-Chloro-2-(trichloromethyl)-4H-1-benzopyran-4-one

Description:

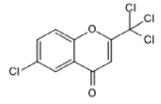
ST 034307 is an adenylyl cyclase 1 (AC1) inhibitor (IC₅₀ = 2.3 μ M). Exhibits some selectivity for AC1 over other AC isoforms, with no significant activity against AC8. Inhibits Ca²⁺/calmodulin-stimulated cAMP accumulation in hippocampal homogenates. Enhances μ opioid receptor (MOR)-mediated inhibition of AC1 in cellular assays and inhibits development and maintenance of MOR-mediated sensitization of AC1. ST 034307 relieves pain without causing tolerance in mouse models of pain. Active in vivo. Analgesic.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₄Cl₄O₂ Batch Molecular Weight: 297.95 Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Brust *et al* (2017) Identification of a selective small-molecule inhibitor of type 1 adenylyl cyclase activity with analgesic properties. Sci.Signal. **10** eaah5381. PMID: 28223412.

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Catalog No.: 6271

1

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM ethanol to 20 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.