# TOCRIS a biotechne br

## **Certificate of Analysis**

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#### Product Name: Conduritol B epoxide

CAS Number: 6090-95-5 IUPAC Name: -1,2-Anhydro-myo-Inositol

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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

162.14 Light brown solid water to 100 mM DMSO to 100 mM Store at -20°C

 $C_6H_{10}O_5$ 

Storage: **Batch Molecular Structure:** 

### 2. ANALYTICAL DATA

<sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Carbon Hydrogen Nitrogen

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

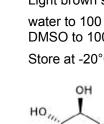
bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

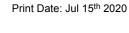
Catalog No.: 7056 Batch No.: 1

но
но
OH

consistent with structure Consistent with structure

Theoretical 44.45 6.22 Found 44.4 5.97







Batch No.: 1

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IUPAC Name: -1,2-Anhydro-myo-Inositol

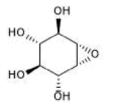
#### **Description:**

Irreversible glucocerebrosidase (GBA) inhibitor (K<sub>i</sub> = 53  $\mu$ M; IC<sub>50</sub> = 4.28 - 9.49  $\mu$ M). Also inhibitis lysosomal  $\alpha$ -glucosidase. Used to generate animal models of Gaucher disease. Accelerates recovery of peripheral nerve injury in mice. Preserves motoneurons and ganglioside distribution at the neuromuscular junction, delays disease onset and improves motor function in a mouse ALS model.

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

Batch Molecular Formula:  $C_6H_{10}O_5$ Batch Molecular Weight: 162.14 Physical Appearance: Light brown solid

#### **Batch Molecular Structure:**



# **Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

Catalog No.: 7056

#### Solubility & Usage Info:

water to 100 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°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:**

**Artola** *et al* (2019) Functionalized cyclophellitols are selective glucocerebrosidase inhibitors and induce a *bona fide* neuropathic Gaucher model in zebrafish. J.Am.Chem.Soc. **141** 4214. PMID: 30811188.

Kuo et al (2019) In vivo inactivation of glycosidases by conduritol B epoxide and cyclophellitol as revealed by activity-based protein profiling. FEBS J. 286 584. PMID: 30600575.

Henriques *et al* (2017) Inhibition of β-glucocerebrosidase activity preserves motor unit integrity in a mouse model of Amyotrophic Lateral Sclerosis. Sci.Rep. **7** 5235. PMID: 28701774.

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bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0)1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0)1235 529449tel: +1612 379 2956