



Certificate of Analysis

www.tocris.com

Product Name: Cesium chloride Catalog No.: 4739 Batch No.: 1

CAS Number: 7647-17-8 EC Number: 231-600-2

IUPAC Name: <

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: CsCl
Batch Molecular Weight: 168.36
Physical Appearance: White solid
Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

CsCl

2. ANALYTICAL DATA

Purity by titration with AgNO3: 101 %
Lithium: <0.001 %
Lead: Not detected
Sulfate: <100 ppm



Product Information

Print Date: Feb 28th 2017

www.tocris.com

Product Name: Cesium chloride Catalog No.: 4739 Batch No.: 1

CAS Number: 7647-17-8 EC Number: 231-600-2

IUPAC Name: ~

Description:

Potassium channel blocker; inhibits the pacemaker current (I_f) and the hyperpolarization-activated cationic current (I_h). Prevents activation of caspase-3 and neuronal apoptosis in serum- and potassium-deprived cerebellar granule neurons by inactivating GSK-3\u03b3.

Physical and Chemical Properties:

Batch Molecular Formula: CsCl Batch Molecular Weight: 168.36 Physical Appearance: White solid

Batch Molecular Structure:

CsCl

Storage: Desiccate at RT

Solubility & Usage Info:

water 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:

Sharma et al (2012) Magnesium sulfate suppresses L-type calcium currents on the basilar artery smooth muscle cells in rabbits. Neurol.Res. 34 291. PMID: 22450340.

Zhong et al (2007) Cesium chloride protects cerebellar granule neurons from apoptosis induced by low potassium. Int.J.Dev.Neurosci. 25 359. PMID: 17804190.

Wallick et al (1997) Effects of ionic channel antagonists barium, cesium, and UL-FS-49 on vagal slowing of atrial rate in dogs. Am.J.Physiol. 273 H2155. PMID: 9374748.