# TOCRIS a biotechne brand

# Certificate of Analysis

# www.tocris.com

Print Date: Jan 15th 2016

### Product Name: RU 28318, potassium salt

Catalog No.: 1672 Batch No.: 1

CAS Number: IUPAC Name:

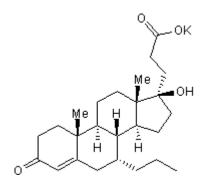
76676-34-1

(7α,17α)-17-Hydroxy-3-oxo-7-propylpregn-4-ene-21-carboxylic acid, potassium salt

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:  $C_{25}H_{37}O_4K.11/4H_2O$ 463.18 White solid water to 100 mM ethanol to 100 mM DMSO to 10 mM Desiccate at +4°C

# Storage: Batch Molecular Structure:



## 2. ANALYTICAL DATA

TLC: Melting Point: HPLC: <sup>1</sup>H NMR: <sup>13</sup>C NMR: Optical Rotation: Microanalysis:  $R_{f} = 0.75 \text{ (Ethyl acetate)}$ Between 268 - 270°C(dec) Shows 98.2% purity Consistent with structure Consistent with structure  $[\alpha]_{D} = +49 \text{ (Concentration = 1, Solvent = Water)}$ Carbon Hydrogen Nitrogen Theoretical 64.83 8.6 Found 64.89 8.66

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

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### **Description:**

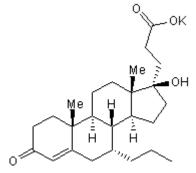
Potent and selective antagonist for the mineralocorticoid receptor (MR). Inhibits aldosterone production and secretion, and selectively decreases ex-vivo MR binding in the hippocampus of adrenalectomised rats. Also decreases blood pressure in female rats following central administration in vivo.

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

Batch Molecular Formula: C<sub>25</sub>H<sub>37</sub>O<sub>4</sub>K.1¼H<sub>2</sub>O Batch Molecular Weight: 463.18 Physical Appearance: White solid

#### Minimum Purity: >98%

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



### Storage: Desiccate at +4°C

#### Solubility & Usage Info:

water to 100 mM ethanol to 100 mM DMSO to 10 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.: 1672

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:**

Perroteau et al (1984) The effect of the antimineralocorticoid RU 28318 on aldosterone biosythesis in vitro. J.Steroid Biochem. 20 853. PMID: 6323881.

**Kim** *et al* (1998) Evaluation of RU28318 and RU40555 as selective mineralocorticoid receptor and glucocorticoid receptor antagonists, respectively: receptor measures and functional studies. J.Steroid Biochem.Mol.Biol. **67** 213. PMID: 9879980.

**Rahmouni** *et al* (1999) Cardiovascular and renal effects of central administration of a mineralocorticoid receptor antagonist in concious female rats. Eur.J.Pharmacol. **385** 199. PMID: 10607876.

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