

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** CELT-133

**Catalog No.:** 7952

**Batch No.:** 1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Weight:** 1318.43  
**Physical Appearance:** Purple solid  
**Storage:** Store at -20°C

### 2. ANALYTICAL DATA

**HPLC:** Shows 97.7% purity  
**Mass Spectrum:** Consistent with structure

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

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**Product Name:** CELT-133

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**1**

**Description:**

CELT-133 is a selective  $\alpha_{1A}$  adrenergic receptor fluorescent antagonist. It shows full selectivity for  $\alpha_{1A}$  over  $\alpha_{2A}$  ( $K_i = 5$  nM and 15% of displacement at 1  $\mu$ M respectively in radioligand binding assay). CELT-133 binds equally to all subtypes of  $\alpha_1$  adrenergic receptor. Excitation and emission maxima ( $\lambda$ ) are 560 and 571 nm, respectively. Wavelengths are compatible with use as an acceptor dye in TR-FRET assays, together with the CoraFluor™ 1 (Cat. No. 7920) TR-FRET donor. Add 76  $\mu$ L of assay buffer containing 1% of DMSO to obtain a 100  $\mu$ M stock solution, and use 250 nM as a working concentration. Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

Batch Molecular Weight: 1318.43

Physical Appearance: Purple solid

**Minimum Purity:**  $\geq 95\%$

**Storage:** Store at  $-20^\circ\text{C}$

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a  $45-60^\circ\text{C}$  water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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  $-20^\circ\text{C}$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

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**References:**

**Kenny et al** (1996) Evaluation of the pharmacological selectivity profile of alpha 1 adrenoceptor antagonists at prostatic alpha 1 adrenoceptors: binding, functional and *in vivo* studies. Br.J.Pharmacol. **118** 871. PMID: 8799556.

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