



DATA SHEET

Product overview

Name	CELT-133
Short description	Selective $\text{h}\alpha_{1\text{A}}$ adrenergic receptor fluorescent antagonist
Biological description	It shows full selectivity for $\alpha_{1\text{A}}$ over $\alpha_{2\text{A}}$ ($K_i = 5 \text{ nM}$ and 15% of displacement at $1 \mu\text{M}$ respectively in radioligand binding assay). The pharmacophore labelled binds equally to all subtypes of α_1 adrenergic receptor. ¹
Biological action	Selective orthosteric ligand
Quantity	10 μg
Purity	> 95%

Properties

Molecular Weight	1318.43 (TFA salt)
Source	Synthetic
Appearance	Purple solid
Formulation	TFA salt, lyophilized solid
Excitation	560 nm
Emission	571 nm
Pharmacological validation	The efficacy and potency of CELT-133 as a selective fluorescent $\text{h}\alpha_{1\text{A}}$ adrenoreceptor antagonist was confirmed by a radioligand binding assay.

Storing and Using product

Storage instructions	-20 °C (protect from light)
Solubility overview	Soluble in DMSO
Stock solution	Add 76 μL of assay buffer containing 1% of DMSO to obtain a 100 μM stock solution.
Handling	After thawing individual aliquots for use, we recommend briefly sonicating the sample to ensure it is fully dissolved and the solution is

homogeneous. We do not recommend using the product after subjecting it to repetitive freeze-thaw cycles.

Shipping conditions

The product, as a solid, is stable at ambient temperature for periods of up to a few days and does not require shipping on ice/dry ice.

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

¹Kenny, B et. al. A. Evaluation of the pharmacological selectivity profile of α 1-adrenoceptor antagonists at prostatic α 1-adrenoceptors: binding, functional and in vivo studies. *Br. J. Pharmacol.* **1996**, 118, 871–878.