



DATA SHEET

Product overview

Name	CELT-249 (cat n. MUSCR-589-2)
Short description	Potent hM ₁ /M ₂ muscarinic receptors fluorescent antagonist.
Biological description	It shows high affinity for hM ₁ and hM ₂ muscarinic receptors ($K_i = 133.0$ nM and $K_i = 11.5$ nM respectively in radioligand binding assay).
Biological action	Modulation of hM ₁ and hM ₂ muscarinic receptors by orthosteric antagonism.
Quantity	10 µg
Purity	> 95%

Properties

Molecular Weight	1219.51
Source	Synthetic
Appearance	Purple solid
Formulation	Solid
Excitation	589 nm
Emission	616 nm
Pharmacological validation	The efficacy and potency of CELT-249 as a hM ₁ /M ₂ fluorescent muscarinic receptor ligand 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 82 µL of DMSO to obtain a 100 µM stock solution. We recommend not exceeding 1% of DMSO in the final assay 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.