



DATA SHEET

Product overview

Name	CELT-071 (cat n. ADOR-589-7)
Short description	Potent and selective hA ₃ Adenosine receptor fluorescent antagonist.
Biological description	It shows full selectivity for A ₃ over A ₁ , A _{2A} and A _{2B} (only in the A ₃ receptor it is possible to measure a K _i whose value is 6.13 nM) in a radioligand binding assay.
Biological action	Modulation of hA ₃ adenosine by orthosteric antagonism.
Quantity	10 µg
Purity	> 95%

Properties

Molecular Weight	1158.10
Source	Synthetic
Appearance	Purple solid
Formulation	Solid
Excitation	589 nM
Emission	616 nM
Pharmacological validation	The efficacy and potency of CELT-071 as a hA ₃ ligand was confirmed by a radioligand binding assay.

Validated applications

Live-imaging confocal microscopy	CELT-071 has been validated in confocal microscopy for the labelling of hA ₃ adenosine receptors in HeLa cancer cells.
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Storing and Using product

Storage instructions	-20 °C (protect from light).
Solubility overview	Soluble in DMSO.

Stock solution	Add 86 μ L of DMSO to obtain a 100 μ M stock solution. We recommend to not exceed 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.