DATA SHEET

Product overview

Name	CELT-419 (cat n. DR-560-2)
Short description	Potent and partially selective hD_3 dopamine receptor fluorescent ligand.
Biological description	It shows K_i = 65.6 nM and K_i = 151.4 nM for D_3 and D_2 dopamine receptors respectively in radioligand binding assay and selectivity over D_4 dopamine receptor.
Biological action	Partially selective orthosteric ligand.
Quantity	10 µg
Purity	> 95%

Properties

Molecular Weight	1347.48
Source	Synthetic
Appearance	Purple solid
Formulation	Solid
Excitation	560 nm
Emission	571 nm
Pharmacological validation	The efficacy and potency of CELT-419 as a partially selective hD_3 fluorescent ligand was confirmed by a radioligand binding assay.

Validated applications

Fluorescence Polarization	CELT-419 has been validated in fluorescence polarization binding assays using baculovirus particles expressing hD_3 dopamine receptor. CELT-419 fluorescent ligand was used at 5 nM concentration.

Storing and Using product

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

Stock solution	Add 74 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.