DATA SHEET

Product overview

Name	CELT-174
Short description	Potent and selective hD_2 Dopamine receptor fluorescent antagonist
Biological description	It shows K_i =1.06 nM, K_i =136.5 nM and K_i =152.7 nM for D_2, D_3 and D_4 Dopamine receptors respectively in radioligand binding assay.
Biological action	Modulation of hD_2 dopamine by orthosteric antagonism
Quantity	10 µg
Purity	> 97%

Properties

Molecular Weight	1365.39
Source	Synthetic
Appearance	Purple solid
Formulation	Lyophilized solid
Excitation	589 nM
Emission	616 nM
Pharmacological validation	The efficacy and potency of CELT-174 as a potent and selective hD_2 ligand was confirmed by a radioligand binding assay.

Validated Applications

Flow Cytometry	CELT-174 has been validated in flow cytometry competition binding assays using CHO-K1 cells expressing hD2 dopamine receptor. CELT-174 fluorescent ligand was used at 30 nM concentration.

Storing and Using product

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

Stock solution	Add 73 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.