



## DATA SHEET

### Product overview

Name	CELT-426 (cat n. DR-560-1)
Short description	Potent and partially selective hD <sub>2</sub> dopamine receptor fluorescent antagonist.
Biological description	It shows K <sub>i</sub> = 89.3 nM, K <sub>i</sub> = 194.8 nM and K <sub>i</sub> = 263.6 nM for D <sub>2</sub> , D <sub>3</sub> and D <sub>4</sub> dopamine receptors respectively in radioligand binding assay.
Biological action	Partially selective orthosteric antagonist.
Quantity	10 µg
Purity	> 95%

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### Properties

Molecular Weight	1615.85 (TFA salt)
Source	Synthetic
Appearance	Purple solid
Formulation	TFA salt, solid
Excitation	560 nm
Emission	571 nm
Pharmacological validation	The efficacy and potency of CELT-426 as a partially selective hD <sub>2</sub> fluorescent antagonist was confirmed by a radioligand binding assay.

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### Validated applications

Fluorescence polarization	CELT-426 has been validated in fluorescence polarization binding assays using membrane preparations from CHO cells expressing hD <sub>2</sub> dopamine receptor. CELT-426 fluorescent ligand was used at 100 nM concentration.
Flow Cytometry	CELT-426 has been validated in flow cytometry competition binding assays using CHO-K1 cells expressing hD <sub>2</sub> dopamine receptor. CELT-426 fluorescent ligand was used at 30 nM concentration.

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### Storing and Using product

Storage instructions	-20 °C (protect from light).
Solubility overview	Soluble in DMSO.
Stock solution	Add 62 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.