



DATA SHEET

Product overview

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| Name | CELT-426 |
| Short description | Potent and partially selective hD ₂ Dopamine receptors fluorescent antagonist |
| Biological description | It shows K _i = 89.3 nM, K _i =194.8 nM K _i =263.6 nM for D ₂ , D ₃ and D ₄ dopamine receptors respectively in radioligand binding assay. |
| Biological action | Partially selective orthosteric antagonist |
| Quantity | 50 µg |
| Purity | > 97% |

Properties

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| Molecular Weight | 1501.82 |
| Source | Synthetic |
| Appearance | Purple solid |
| Formulation | Lyophilized solid |
| Excitation | 560 nm |
| Emission | 571 nm |
| Pharmacological validation | The efficacy and potency of CELT-426 as a partially selective hD ₂ fluorescent antagonist was confirmed by a radioligand binding assay. |

Validated applications

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| Fluorescence polarization | CELT-426 has been validated in fluorescence polarization binding assays using membrane preparations from CHO cells expressing hD ₂ 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 ₂ dopamine receptor. CELT-426 fluorescent ligand was used at 30 nM concentration. |

Storing and Using product

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| Storage instructions | -20 °C (protect from light) |
| Solubility overview | Soluble in DMSO. |
| Stock solution | Add 33 µL of DMSO to obtain a 1mM 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. |