

DATA SHEET

Product overview

Name	CELT-483
Short description	Potent $h\sigma_1/\sigma_2$ receptor fluorescent ligand
Biological description	It shows high affinity for σ_1 and σ_2 receptors (K _i = 51.3 nM and K _i = 30.2 nM, respectively in radioligand binding assays).
Biological action	Modulation of σ_1/σ_2 receptor by orthosteric antagonism
Quantity	10 µg
Purity	> 95%

Properties		
Molecular Weight	970,36	
Source	Synthetic	
Appearance	Dark blue solid	
Formulation	Lyophilized solid	
Excitation	646 nM	
Emission	662 nM	
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Pharmacological validation	The efficacy and potency of CELT-483 as a σ_1/σ_2 ligand was confirmed by a radioligand binding assay.	
Pharmacological validation		
Flow Cytometry	by a radioligand binding assay.	
	by a radioligand binding assay. Validated applications	

Storing and Using product

Storage instructions

-20 °C (protect from light)

Solubility overview	Soluble in DMSO
Stock solution	Add 103 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 room 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.

Publications

¹J. Med. Chem. 2023, 66, 6, 3798–3817 https://doi.org/10.1021/acs.jmedchem.2c01227