

## DATA SHEET

| Product overview       |   |  |
|------------------------|---|--|
| Name                   | CELT-483 (cat n. oR-646-1)  |  |
| Short description      | Potent $h\sigma_1/\sigma_2$ receptor fluorescent ligand.  |  |
| Biological description | It shows high affinity for $\sigma_1$ and $\sigma_2$ receptors (K <sub>i</sub> = 51.3 nM and K <sub>i</sub> = 30.2 nM, respectively in radioligand binding assays). |  |
| Biological action      | Modulation of $\sigma_1/\sigma_2$ receptor by orthosteric binding.  |  |
| Quantity               | 10 µg   |  |
| Purity                 | > 95%   |  |

| Properties                 |  |  |
|----------------------------|--|--|
| Molecular Weight           | 970.36   |  |
| Source                     | Synthetic  |  |
| Appearance                 | Dark blue solid  |  |
| Formulation                | Solid  |  |
| Excitation                 | 646 nM   |  |
| Emission                   | 662 nM   |  |
| Pharmacological validation | The efficacy and potency of CELT-483 as a $\sigma_1/\sigma_2$ ligand was confirmed by a radioligand binding assay. |  |
| Validated applications     |  |  |
| Flow Cytometry             | CELT-483 has been validated in flow cytometry in MCF7 cells <sup>1</sup>   |  |
| Confocal microscopy        | CELT-483 has been validated in confocal microscopy in MCF7 cells <sup>1</sup>                                      |  |
| Live Cell microscopy       | CELT-483 has been validated in live cell microscopy in MCF7 cells <sup>1</sup>                                     |  |

Storing and Using product

Storage instructions

-20 °C (protect from light).

| Solubility overview | Soluble in DMSO.   |
|---------------------|--|
| Stock solution      | Add 103 $\mu L$ of DMSO to obtain a 100 $\mu M$ 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 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

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