



## DATA SHEET

### Product overview

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|------------------------|--|
| Name                   | CELT-316 (cat n. ADOR-589-2)   |
| Short description      | Selective hA <sub>2A</sub> adenosine receptor fluorescent ligand.  |
| Biological description | It shows full selectivity for A <sub>2A</sub> over A <sub>1</sub> , A <sub>2B</sub> and A <sub>3</sub> (only in the A <sub>2A</sub> receptor it is possible to measure a K <sub>i</sub> whose value is 116.1 nM in radioligand binding assay). |
| Biological action      | Selective orthosteric ligand.  |
| Quantity               | 10 µg  |
| Purity                 | > 95%  |

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### Properties

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|----------------------------|--|
| Molecular Weight           | 1148.07  |
| Source                     | Synthetic  |
| Appearance                 | Purple solid   |
| Formulation                | Solid  |
| Excitation                 | 589 nm   |
| Emission                   | 616 nm   |
| Pharmacological validation | The efficacy and potency of CELT-316 as a selective fluorescent hA <sub>2A</sub> adenosine receptor ligand was confirmed by a radioligand binding assay. |

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### Validated applications

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| Live-imaging confocal microscopy | CELT-316 has been validated in confocal microscopy for the labelling of hA <sub>2A</sub> adenosine receptor in HCT-116 colon cancer cells. |
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### Storing and Using product

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

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|---------------------|--|
| Stock solution      | Add 87 $\mu$ 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 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.  |