



DATA SHEET

Product overview

Name	CELT-335 (cat n. CBR-646-1)
Short description	Potent CB ₁ /CB ₂ cannabinoid receptors fluorescent ligand.
Biological description	It shows affinity for CB ₁ and CB ₂ ($K_i = 44.8$ nM and $K_i = 7.4$ nM respectively in radioligand binding assay).
Biological action	No selective orthosteric ligand.
Quantity	10 µg
Purity	> 95%

Properties

Molecular Weight	1377.81
Source	Synthetic
Appearance	Dark blue solid
Formulation	Solid
Excitation	646 nm
Emission	662 nm
Pharmacological activity	The efficacy and potency of CELT-335 as a hCB fluorescent ligand was confirmed by a radioligand binding assay.

Validated applications

High content screening	CELT-335 has been validated in High content screening binding assays using HEK cell lines expressing CB ₁ or CB ₂ .
HTRF	CELT-335 has been validated in HTRF (Homogeneous Time Resolved Fluorescence) binding assays for CB ₁ and CB ₂ receptors. ¹

Storing and Using product

Storage instructions	-20 °C (protect from light).
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Solubility overview	Soluble in DMSO.
Stock solution	Add 73 μ L of DMSO to obtain a 100 μ 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.

References

¹Lu Raich et al. "Similarities and differences upon binding of naturally occurring Δ 9-tetrahydrocannabinol-derivatives to cannabinoid CB1 and CB2 receptors" *Pharmacol. Res.*, 2021,174,105970.