



DATA SHEET

Product overview

Name	LUXendin551 glucagon-like peptide-1 receptor (GLP1R) fluorescent antagonist (551/576) (CELT-111)
Code	CELT-111
Short description	Potent glucagon-like peptide-1 receptor (GLP1R) antagonist
Biological action	Modulation of glucagon-like peptide-1 receptor (GLP1R) by orthosteric antagonism. It shows an $pIC50 = 7.2$ for GLP1R. ^[1]
Quantity	3 nmol
Purity	> 97%

Properties

Molecular Weight	3965.6 Da (for M ⁺)
Source	Synthetic
Appearance	Bright red solid
Formulation	Solid powder
Excitation	551 nm
Emission	576 nm
Pharmacological validation	The efficacy and potency of LUXendin551 (CELT-111) as a GLP1R ligand was confirmed by inhibition of GLP-1-stimulated cAMP levels in SNAP-GLP1R:HEK293 cells.

Applications

Experimental use	LUXendin551 (CELT-111) has been used in a variety of imaging applications, including widefield/confocal/2-photon microscopy in live and fixed mammalian cells and tissue, as well as anaesthetized mice. ^[1]
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Storing and Using product

Storage instructions	-20 °C (protect from light)
Solubility overview	Soluble in DMSO, PBS, and dH ₂ O
Stock solution	Add 30 µL of dH ₂ O to obtain a 100 µM solution
Handling	After thawing individual aliquots for use, we recommend to homogenize the sample by up- and down-pipetting to ensure it is fully dissolved. 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

- [1] J. Ast, A. N. Novak, T. Podewin, N. H. F. Fine, B. Jones, A. Tomas, R. Birke, K. Roßmann, B. Mathes, J. Eichhorst, M. Lehmann, A. K. Linnemann, D. J. Hodson, J. Broichhagen, **2021**, DOI 10.33774/chemrxiv-2021-7rngq.