DATA SHEET

Product overview

Name	LUXendin762 glucagon-like peptide-1 receptor (GLP1R) fluorescent antagonist (762/784) (CELT-113)
Code	CELT-113
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 p*IC50* = 7.0 for GLP1R.[1]
Quantity	3 nmol
Purity	> 97%

Properties

Molecular Weight	4055.1 Da (for M^+)
Source	Synthetic
Appearance	Bright turquoise solid
Formulation	Solid powder
Excitation	762 nm
Emission	784 nm
Pharmacological validation	The efficacy and potency of LUXendin762 (CELT-113) as a glucagon-like peptide-1 receptor ligand was confirmed by a GLP-1 stimulated cAMP levels in SNAP-GLP1R:HEK293 cells.

Applications

Experimental use	LUXendin762 (CELT-113) has been used in a variety of imaging applications, including widefield imaging in live and fixed mammalian cells and tissue[1]. LUXendin762 is also compatible with non-invasive fluorescence preclinical imaging[1].

Storing and Using product

Storage instructions	-20 °C (protect from light)
Solubility overview	Soluble in DMSO, PBS, and dH_2O
Stock solution	Add 30 µL of dH_2O 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.