Product Data Sheet

Product Name: CTR/AMYR modulator-2
Cat. No.: GC79274

Chemical Properties

Cas. No.	3108095-52-6		
Formula	$C_{33}H_{35}ClF_2N_8O_3$	M.Wt	665.13
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

CTR/AMYR modulator-2 is a dual agonist of human amylin receptor 3 (AMY3R) and calcitonin receptor (CTR). CTR/AMYR modulator-2 activates AMY3R and CTR, stimulating Rel EC 50 of cAMP production in UMUC3 cells by 4 nM and 1 nM, respectively. CTR/AMYR modulator-2 may be used in research on type 2 diabetes and obesity [1].

In Vitro, CTR/AMYR modulator-2 (Example 107) acts as an agonist at the human amylin receptor (AMY3R) in UMUC3 cells, with a Rel EC50 of 4 nM and an Emax of 99% as determined in a 20-point concentration-response assay following 30 min of incubation[1]. CTR/AMYR modulator-2 acts as an

agonist at the human calcitonin receptor (CTR) in UMUC3 cells, with a Rel EC50 of 1 nM and an Emax of 88% under the same 20-point assay conditions[1].

References:

[1]. Renato A. BAUER, et al. 4-phenyl-1h-pyrazolo[3,4-b]pyridine-5-carboxamide derivatives as amylin and/or calcitonin receptor agonists for the treatment of type 2 diabetes, obesity or overweight. WO2025240893A1. 2025.

Caution: Product has not been fully validated for medical applications. For research use only.
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