

Data Sheet

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Product Name : GPR101 agonist AA-14

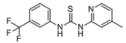
 Cat. No.
 : PC-21343

 CAS No.
 : 723740-38-3

 Molecular Formula : C₁₄H₁₂F₃N₃S

 Molecular Weight : 311.33

Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 723740-38-3

Biological Activity

GPR101 agonist AA-14 is a specific small molecule agonist of **GPR101** with EC50 of 0.37 uM, 0.88 uM and 2.14 uM in activating Gs, Gq or β -arrestin2 assays respectively.

AA-14 selectively activated the Gs and Gq pathways downstream of GPR101, but not in HEK293 cells expressing any of the other tested receptors.

AA-14 partially restores the functions of GH/IGF-1 axis.

AA-14 (0.1 mg/kg per day) exerts rejuvenating effects through activating GPR101 in 8-week-old mic, which are abrogated in Gpr101-deficient mice.

AA-14 stimulates hormone synthesis in the pituitary of aged mice.

GPR101 is an orphan G protein-coupled receptor actively participating in energy homeostasis.

References

Yang Z, et al. Nat Chem Biol. 2023 Nov 9. doi: 10.1038/s41589-023-01456-6.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com