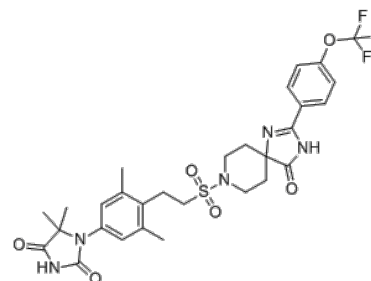


Product Name : PCO371
Cat. No. : PC-35256
CAS No. : 1613373-33-3
Molecular Formula : C₂₉H₃₂F₃N₅O₆S
Molecular Weight : 635.659
Target : PTH Receptor
Solubility : 10 mM in DMSO



Biological Activity

PCO371 is a potent, selective, orally active, full agonist of the PTH type 1 receptor (**PTH1R**) with EC₅₀ of 2.4 μM in cell-based assays, does not affect PTHR2.

PCO371 exhibits PTH-like biological activity in osteopenic ovariectomized (OVX) rats and in hypocalcemic thyroparathyroidectomized (TPTX) rats after oral administration.

PCO371 increases bone mineral density (BMD) and bone strength as effectively as PTH by intravenous administration in vivo.

PCO371 functions as a Gprotein biased agonist in relative to PTH.

References

- Tamura T, et al. *Nat Commun.* 2016 Nov 18;7:13384.
- Nishimura Y, et al. *J Med Chem.* 2020 May 28;63(10):5089-5099.
- Li-Hua Zhao, et al. *Nature.* 2023 Jul 31. doi: 10.1038/s41586-023-06467-w.

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

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