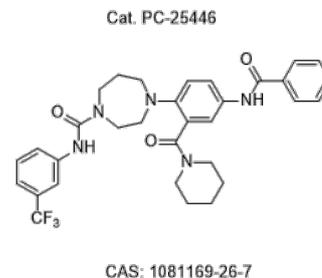


Product Name : G4451
Cat. No. : PC-25446
CAS No. : 1081169-26-7
Molecular Formula : C₃₂H₃₄F₃N₅O₃
Molecular Weight : 593.65
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

G4451 is a specific small molecule inhibitor of **GPR31**, inhibits the GPR31-Gαi3 interaction by targeting the GPR31 conformational transition, effectively blocked MASH progression.

G4451 shows robust inhibitory effects on lipid accumulation, inflammatory response, and MAPK signaling upon PA/OA treatment in primary hepatocytes.

G4451-mediated inhibitory effects were dependent on GPR31 expression.

G4451 (60 mg/kg, or 10 mg/kg/d, orally) effectively blocked metabolic dysfunction-associated steatohepatitis (MASH) in mice and monkeys, greatly suppressed MASH-related genes.

References

Zhang XJ, et al. *J Clin Invest.* 2025 Sep 2;135(17):e173193.

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

E-mail: tech@probechem.com