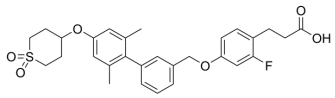
TP-051

Cat. No.:	HY-148235
CAS No.:	858097-86-6
Molecular Formula:	$C_{29}H_{31}FO_6S$
Molecular Weight:	526.62
Target:	Free Fatty Acid Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TP-051 is a potent FFAR1 agonist with an K_i value of 16 nM for human FFAR1. TP-051 can increase insulin secretion in rat insulinoma cells. TP-051 can be used to research type 2 diabetes[1].
IC_{50} & Target	K_i: 16 nM (human FFAR1)[1]
In Vitro	TP-051 (compound 31) (0.01-10 μM; 2 h; INS-1 cells) augments insulin secretion in a dose-dependent manner in the presence of 11 mM glucose and statistically significant increases in insulin secretion were observed at doses of above 0.1 μM of the compound[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mikami S, et al. Discovery of phenylpropanoic acid derivatives containing polar functionalities as potent and orally bioavailable G protein-coupled receptor 40 agonists for the treatment of type 2 diabetes. J Med Chem. 2012 Apr 26;55(8):3756-76.

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