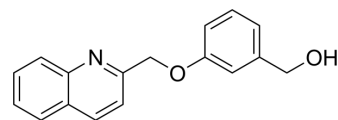


CAY10789

Cat. No.:	HY-147086
CAS No.:	123226-28-8
Molecular Formula:	C ₁₇ H ₁₅ NO ₂
Molecular Weight:	265.31
Target:	Leukotriene Receptor; G protein-coupled Bile Acid Receptor 1; TNF Receptor
Pathway:	GPCR/G Protein; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CAY10789 (compound 6) is a potent CysLT ₁ R (cysteinyl leukotriene receptor 1) antagonist (IC ₅₀ =2.80 μM) and GPBAR1 (G-protein-coupled bile acid receptor 1) agonist (EC ₅₀ =3 μM). CAY10789 significantly reduces the adhesion of U937 cells to HAEC, reduces the expression of TNF-α. CAY10789 shows very promising metabolic stability and excellent pharmacokinetics. CAY10789 can be used for the research of colitis, metabolic syndromes, and other GPBAR1/CysLT ₁ R-related diseases ^[1] .
IC ₅₀ & Target	CysLT ₁ 2.8 ± 0.3 μM (IC ₅₀)

REFERENCES

[1]. Fiorillo B, et al. Structural Basis for Developing Multitarget Compounds Acting on Cysteinyl Leukotriene Receptor 1 and G-Protein-Coupled Bile Acid Receptor 1. *J Med Chem.* 2021 Nov 25;64(22):16512-16529.

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

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