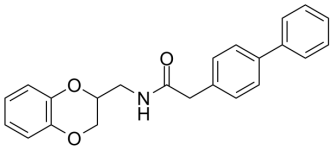
AIMP2-DX2-IN-1

Cat. No.:	HY-150719
CAS No.:	848256-17-7
Molecular Formula:	$C_{23}H_{21}NO_3$
Molecular Weight:	359.42
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	AIMP2-DX2-IN-1 (Compound 35) is a potent AIMP2-DX2 inhibitor with an IC_{50} of 0.1063 μM[1].
IC_{50} & Target	IC_{50}: 0.1063 μM (AIMP2-DX2)[1]
In Vitro	AIMP2-DX2-IN-1 (Compound 35) (0-1 μM, 96 h) shows inhibitory activity against A549 and H460 cells without toxicity for normal cells[1]. AIMP2-DX2-IN-1 showes very poor metabolic stability and good plasma stability in both human and mouse, and CYP inhibition need to be improved[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	A549, H460 and WI-26
Concentration:	0-1 μM
Incubation Time:	96 h
Result:	Showed inhibitory activities with EC_{50}s of 0.690 ± 0.648 μM and 0.150 ± 0.062 μM against A549 and H460 cells, respectively. And is not active for WI-26.

REFERENCES

[1]. Lee B, et al. Discovery of benzodioxane analogues as lead candidates of AIMP2-DX2 inhibitors. Bioorg Med Chem Lett. 2022 Jul 13;73:128889.

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