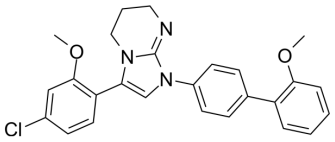
IGUANA-1 free base

Cat. No.:	HY-148243
CAS No.:	2756014-24-9
Molecular Formula:	$C_{26}H_{24}ClN_3O_2$
Molecular Weight:	445.94
Target:	Aldehyde Dehydrogenase (ALDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IGUANA-1 free base (STL5-T-0057) is an selective ALDH1 B1 inhibitor with an IC_{50} value of 30 nM. IGUANA-1 free base inhibits cell growth of SW480 cells in adherent and spheroid conditions with IC_{50} values of 2.46 and 0.39 μM, respectively. IGUANA-1 free base can be used for the research of cancer[1].
IC_{50} & Target	IC50: 30 nM (ALDH1 B1), 2.46 μM (SW480, adherent), 0.39 μM (SW480, spheroid)[1]
In Vitro	IGUANA-1 free base (compound 68) (0-10 μM) inhibits ALDH1 B1 with an IC_{50} value of 30 nM[1]. IGUANA-1 free base (0.01-10 μM; 4-5 d) inhibits cell growth of HEK293T cells[1]. IGUANA-1 free base (0.01-10 μM) inhibits cell viability of SW480 cells in adherent and spheroid conditions with IC_{50} values of 2.46 and 0.39 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	HEK293T cell line
Concentration:	0.01-10 μM
Incubation Time:	4-5 d
Result:	Showed cell cytotoxicity to HEK293T cells with a GI_{50} value of 1.7 μM.

REFERENCES

[1]. Chen Jame Kenneth, et al. Preparation of substituted imidazolium or cyclic guanidine compounds as isoform-specific aldehyde dehydrogenase inhibitors for the treatment of cancer. WO2021257696 A1. 2021.

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

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