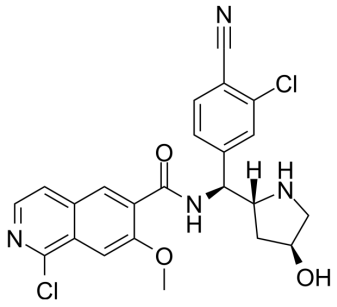
DS01080522

Cat. No.:	HY-150073
CAS No.:	2832159-84-7
Molecular Formula:	$C_{23}H_{20}Cl_2N_4O_3$
Molecular Weight:	471.34
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DS01080522 is a Protein Kinase cAMP-Activated Catalytic Subunit Alpha (PRKACA) inhibitor. DS01080522 inhibits PRKACA kinase activity and CREB phosphorylation with IC_{50}s of 0.8 nM and 66 nM, respectively. DS01080522 can be used for the research of cancer[1].
IC_{50} & Target	IC50: 0.8 nM (PRKACA kinase), 66 nM (CREB phosphorylation)[1]
In Vitro	DS01080522 (1-10 μM; 30 min) affects phosphorylation of CREB[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	NIH/3T3 cells
Concentration:	1-10 μM
Incubation Time:	30 min
Result:	Dose-dependently decreased the phosphorylation level of CREB which is a marker of intracellular PRAKACA inhibitory activity in NIH/3T3 cells with an IC_{50} value of 66 nM.

REFERENCES

[1]. Toyota A, et al. Novel protein kinase cAMP-Activated Catalytic Subunit Alpha (PRKACA) inhibitor shows anti-tumor activity in a fibrolamellar hepatocellular carcinoma model. Biochem Biophys Res Commun. 2022 Sep 17;621:157-161.

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