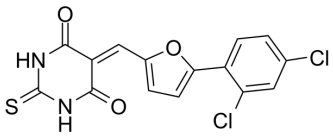
EPAC 5376753

Cat. No.:	HY-111446
CAS No.:	302826-61-5
Molecular Formula:	$C_{15}H_8Cl_2N_2O_3S$
Molecular Weight:	367.21
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EPAC 5376753 is an allosterically inhibitor of Epac which inhibits Epac1 with an IC_{50} of 4 μM in Swiss 3T3 cells.
IC_{50} & Target	IC50: 4 μM (Epac)[1]
In Vitro	Epac is a key mediator of cAMP signaling. EPAC 5376753, the thiobarbituric acid modification of 5225554, has a greater ability to decrease the conformational changes of Epac necessary for its activation and to inhibit Epac signaling in cells. 5376753 selectively inhibits Epac-mediated migration in fibroblasts[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	Swiss 3T3 cells are treated with EPAC 5376753 (1, 10, 25, 50, 75, 100 μM) or 1% dimethyl sulfoxide for 48 h. Cell viability is assessed using the CellTiter-Glo assay[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Brown LM, et al. Allosteric inhibition of Epac: computational modeling and experimental validation to identify allosteric sites and inhibitors. J Biol Chem. 2014 Oct 17;289(42):29148-57.

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