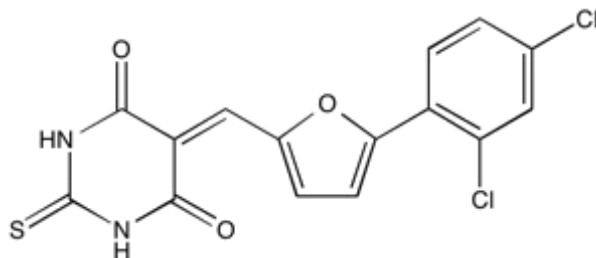


Catalog # 10-1564

EPAC 5376753

5-((5-(2,4-Dichlorophenyl)furan-2-yl)methylene)-2-thioxodihydropyrimidine-4,6(1H,5H)-dione

Lot # S102116



An allosteric inhibitor of Epac1, $IC_{50} = 4 \mu M$.¹ Does not inhibit PKA or adenylyl cyclase. Inhibits biological functions mediated by Epac including cAMP-induced increase in migration of cardiac fibroblasts. A useful tool for probing the role of Epac in cellular physiology and pathophysiology.²

- 1) Brown et al. (2014), *Allosteric inhibition of Epac: computational modeling and experimental validation to identify allosteric sites and inhibitors*; J. Biol. Chem., **289** 29148
- 2) Parnell et al. (2015), *The future of EPAC-targeted therapies: agonism versus antagonism*; Trends Pharmacol. Sci., **36** 203

PHYSICAL DATA

Molecular Weight:	367.21
Molecular Formula:	C ₁₅ H ₈ Cl ₂ N ₂ O ₃ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 15 mg/ml) or in DMF (up to 10 mg/ml)
Physical Description:	Orange-red solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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