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\textsubscript{50}= 4 μM.\textsuperscript{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.\textsuperscript{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

PHYSICAL DATA

Molecular Weight: 367.21
Molecular Formula: C\textsubscript{15}H\textsubscript{8}Cl\textsubscript{2}N\textsubscript{2}O\textsubscript{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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