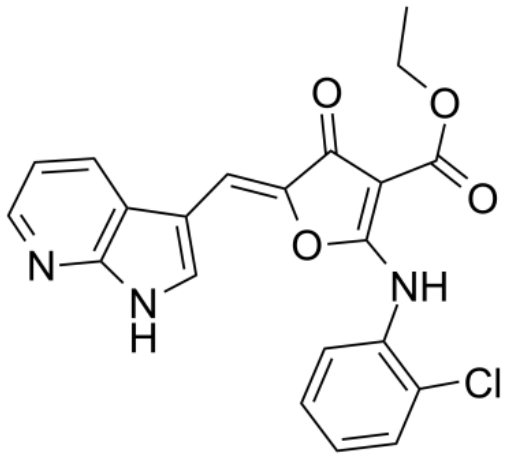
Product Data Sheet

Product Name: Cdc7-IN-1
Cat. No.: GC35628

Chemical Properties

Cas. No.	1402055-25-7		
SMILES	O=C1C(C(OCC)=O)=C(NC2=C(Cl)C=CC=C2)O/C1=C\C3=CNC4=C3C=CC=N4		
Formula	$C_{21}H_{16}ClN_3O_4$	M.Wt	409.82
Solubility	DMSO: 5.2 mg/mL (12.69 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Cdc7-IN-1 (Compound 13) is a highly potent, selective and ATP competitive inhibitor of Cdc7 kinase, with an IC50 value of 0.6 nM at 1 mM ATP and with slow off-rate characteristics. Cdc7-IN-1 potently inhibits Cdc7 activity in cancer cells, and effectively induces cell death[1]. IC50: 0.6 nM (Cdc7, at 1 mM ATP)[1]

[1]. Irie T, et al. Discovery of novel furanone derivatives as potent Cdc7 kinase inhibitors. Eur J Med Chem. 2017 Apr 21;130:406-418.

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