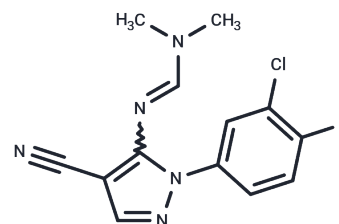


Binucleine 2

Chemical Properties

CAS No. :	220088-42-6
Formula:	C ₁₃ H ₁₁ ClFN ₅
Molecular Weight:	291.71
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Binucleine 2 is an isoform-specific and ATP-competitive inhibitor of Drosophila Aurora B kinase ($K_i = 0.36 \mu\text{M}$), a kinase involved in cell division. It is specific for Drosophila Aurora B kinase, inhibiting it in a dose-dependent manner, with minimal inhibition of human or <i>X. laevis</i> Aurora B kinases at concentrations up to $100 \mu\text{M}$. Binucleine 2 induces mitotic and cytokinesis defects in Drosophila Kc167 cells. It prevents Drosophila S2 cells from assembling a contractile ring during cell division when used at a concentration of $40 \mu\text{M}$ but does not affect ring ingression, suggesting that Aurora B kinase activity is not required for that step.
-------------	--

Solubility Information

Solubility	Chloroform: Slightly soluble DMSO: Slightly soluble ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4281 mL	17.1403 mL	34.2806 mL
5 mM	0.6856 mL	3.4281 mL	6.8561 mL
10 mM	0.3428 mL	1.714 mL	3.4281 mL
50 mM	0.0686 mL	0.3428 mL	0.6856 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481