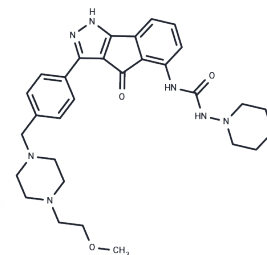


RGB-286638 free base

Chemical Properties

CAS No. : 784210-88-4
 Formula: C₂₉H₃₅N₇O₄
 Molecular Weight: 545.63
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	RGB-286638 free base is a novel CDK inhibitor with IC ₅₀ s of 1 nM/2 nM/3 nM/4 nM/5 nM for cyclin T1-CDK9/cyclin B1-CDK1/cyclin E-CDK2/cyclin D1-CDK4/cyclin E-CDK3/p35-CDK5 respectively; less potent against cyclin H-CDK7 and cyclin D3-CDK6.
Targets(IC ₅₀)	MEK,CDK,GSK-3,JAK

Solubility Information

Solubility	0.1M HCl: 1 mg/mL (1.83 mM),Sonication is recommended. DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	15% Solutol HS-15 in Saline: 10 mg/mL (18.33 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8327 mL	9.1637 mL	18.3274 mL
5 mM	0.3665 mL	1.8327 mL	3.6655 mL
10 mM	0.1833 mL	0.9164 mL	1.8327 mL
50 mM	0.0367 mL	0.1833 mL	0.3665 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cirstea D, et al. Leukemia. 2013 Dec;27(12):2366-75.

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