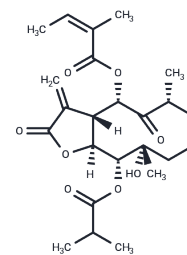


Cernuumolide J

Chemical Properties

CAS No. :	2019163-02-9
Formula:	C ₂₄ H ₃₄ O ₈
Molecular Weight:	450.52
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	Cernuumolide J (TMJ-105) functions as a JAK2/STAT3 inhibitor and exhibits potent activity against HEL leukemia cells by inhibiting their growth in both time-dependent and concentration-dependent manners, with an IC ₅₀ value of 1.79 μM. This compound effectively induces G ₂ /M phase arrest and apoptosis by downregulating the phosphorylation of JAK2, STAT3, and Erk, while simultaneously upregulating the phosphorylation of JNK and p38 MAPK. Cernuumolide J holds potential for research applications in anti-cancer therapy.
Targets(IC ₅₀)	Apoptosis,ERK,STAT,JAK,JNK,p38 MAPK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2197 mL	11.0983 mL	22.1966 mL
5 mM	0.4439 mL	2.2197 mL	4.4393 mL
10 mM	0.222 mL	1.1098 mL	2.2197 mL
50 mM	0.0444 mL	0.222 mL	0.4439 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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