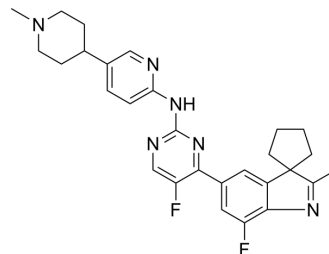


Crozbaciclub

Cat. No.:	HY-112280		
CAS No.:	2099128-41-1		
Molecular Formula:	C ₂₈ H ₃₀ F ₂ N ₆		
Molecular Weight:	488.57		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Crozbaciclub (CDK4/6/1 Inhibitor) is a CDK4/6 inhibitor with IC ₅₀ s of 3 and 1 nM, respectively.
IC₅₀ & Target	IC ₅₀ : 3 nM (CDK4), 1 nM (CDK6) ^[1]
In Vitro	Crozbaciclub is a potent anti-proliferative agent that arrests U87MG cell line exclusively in G1 (IC ₅₀ =15.3 ± 2.9 nM in the anti-proliferation assay). Crozbaciclub (13.72 nM; 24 h) significantly increases in the percentage of cells in G1 in U87MG cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Crozbaciclub (3.125-50 mg/kg;) has tumor growth inhibition values ranging from 62% to 99% in an orthotopic xenograft mouse model of glioblastoma multiforme. And Crozbaciclub results insignificant body weight loss. Crozbaciclub increases life span based on the median survival time of vehicle-treated animals in mice is significant at 162%, at a dose of 50 mg/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[1]	The U87MG glioblastoma cells are treated with CDK4/6/1 and incubated for 72 h at 37°C. Then the medium is removed, 4% paraformaldehyde (50 µL/well) is added to the wells, and the cells are fixed for 30 min at RT. Cells are washed twice with phosphate-buffered saline (PBS) solution, and permeabilized in 0.2% Triton-X100 for 5 min. Cells are ished twice with PBS, after which 50 µL DAPI (1 µg/mL) is added to the wells, followed by incubation of the cells in the dark for 20 min. After ishing three times with PBS, PBS (100 µL/well) is added to the wells. The plates are scanned using IN Cell Analyzer 2200 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Administration ^[1]	Mice ^[1] In the U87MG-Luc orthotopic xenograft mouse model, mice are treated with 3.125, 6.25, 12.5, 25, 50 mg/kg QD CDK4/6/1 Inhibitor for 28 days MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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