Proteins

Screening Libraries

Product Data Sheet



Cat. No.: HY-153341 CAS No.: 2882165-79-7 Molecular Formula: $C_{45}H_{49}F_{2}N_{11}O_{9}S$

Molecular Weight: 958

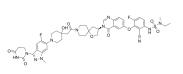
Target: PROTACs; Raf

Pathway: PROTAC; MAPK/ERK Pathway

Storage: 4°C, protect from light, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (104.38 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0438 mL	5.2192 mL	10.4384 mL
	5 mM	0.2088 mL	1.0438 mL	2.0877 mL
	10 mM	0.1044 mL	0.5219 mL	1.0438 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description CFT1946 is an orally active, CRBN-based and mutant-selective bifunctional degradation activating compound (BiDAC™)

degrader of BRAF^{V600E} with a DC₅₀ of 14 nM in A375 cells. CFT1946 is capable of degrading BRAF V600E (Class I), G469A (Class II), G466V (Class III) mutations, and the p61-BRAF^{V600E} splice variant. CFT1946 can be used in tumor research^{[1][2]}.

BRaf^{V600E} Cereblon IC₅₀ & Target

CFT1946 (100 nM; 24 h) causes BRAFV600E degradation and inhibits MAPK Signaling with pERK loss in BRAFV600E cells but not In Vitro in WT-BRAF cells^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[2]

Cell Line:	A375 cells
Concentration:	100 nM
Incubation Time:	24 h

	Result:	Caused BRAF ^{V600E} degradation.		
In Vivo	mg/kg ^[2] .	CFT1946 (0.3-10 mg/kg; PO; BID; 20 days) induces tumor regression in the BRAF ^{V600E} A375 xenograft mouse model with 10 mg/kg ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	BRAF ^{V600E} A375 xenograft mouse model ^[2]		
	Dosage:	0.3, 3, 10 mg/kg		
	Administration:	PO; BID; 20 days		
	Result:	Shows dose-dependent tumor regression. 10 mg/kg BID dose resulted in sustained tumor regression and is the minimum efficacious dose.		

REFERENCES

[1]. Sowa M E, et al. Preclinical evaluation of CFT1946 as a selective degrader of mutant BRAF for the treatment of BRAF driven cancers[J]. Cancer Research, 2022, 82(12_Supplement): 2158-2158.

[2]. Yanke Liang. The Discovery and Characterization of CFT1946: A Potent, Selective, and Orally Bioavailable Degrader of Mutant BRAF for the Treatment of BRAF-driven Cancers. ANNUAL MEETING, American Association for Cancer Research, 2023.

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

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