ERK1/2 inhibitor 9

Cat. No.: HY-153738

CAS No.: 2169302-75-2

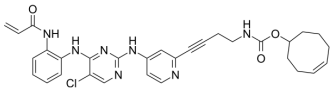
Molecular Formula: $C_{31}H_{32}ClN_7O_3$

Molecular Weight: 586.08

Target: ERK

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (85.31 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7063 mL	8.5313 mL	17.0625 mL
	5 mM	0.3413 mL	1.7063 mL	3.4125 mL
	10 mM	0.1706 mL	0.8531 mL	1.7063 mL

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

BIOLOGICAL ACTIVITY

Description

ERK1/2 inhibitor 9 (Probe 1) is a covalent ERK1/2 inhibitor. ERK1/2 inhibitor 9 shows sub-micromolar activity in cells (A375 GI50=0.47 μM). ERK1/2 inhibitor 9 causes the downregulation of phospho-ERK1/2. ERK1/2 inhibitor 9 tagged trans-cyclo-octene (TCO) and Tz-Thalidomide (tetrazine tagged Thalidomide) can form the corresponding ERK-CLIPTAC to elicit degradation of ERK1/2[1].

IC_{50} & Target	ERK1	ERK2

REFERENCES

[1]. Honorine Lebraud, et al. Protein Degradation by In-Cell Self-Assembly of Proteolysis Targeting Chimeras. ACS Cent Sci. 2016 Dec 28;2(12):927-934.

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

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