ERK-IN-7

Cat. No.: HY-153350

CAS No.: 2494010-63-6

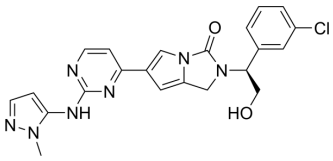
Molecular Formula: $C_{22}H_{20}ClN_7O_2$

Molecular Weight: 449.89

Target: ERK

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ERK-IN-7 (Example 10), an analogue of SHR2415 (HY-151367), is a potent ERK inhibitor with IC_{50} of 5 nM and 7 nM against ERK1 and ERK2, respectively[1].

IC_{50} & Target

ERK1	ERK2
5 nM (IC_{50})	7 nM (IC_{50})

In Vitro

ERK-IN-7 (Example 10; 24 h) inhibits Colo205 proliferation with an IC_{50} of 62 nM[1].

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

Cell Proliferation Assay[1]

Cell Line:	Colo205
Concentration:	
Incubation Time:	24 h
Result:	Inhibited proliferation with an IC_{50} of 62 nM.

In Vivo

ERK-IN-7 (Example 10; 2 mg/kg; i.g.) shows good pharmacokinetic results[1].

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

Animal Model:	C57 mice[1]
Dosage:	2 mg/kg
Administration:	Intragastric administration (Pharmacokinetic Analysis)
Result:	Pharmacokinetic parameters[1]

	C_{max} (ng/mL)	AUC (ng·h/mL)	$T_{1/2}$ (h)	MRT (h)	$CL_{z/F}$ (mL/min/kg)	$V_{z/F}$ (mL/kg)

	ERK-IN-7 (Example 10)	1023	3441	3.66	3.47	9.69	3067

REFERENCES

[1]. Xin Li, et al. Pyrroloheterocyclic derivative, preparation method therefor, and application thereof in medicine. Patent WO2020200069A1.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA