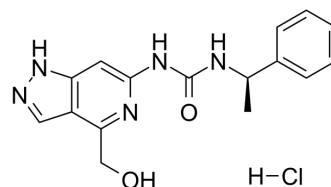


ERK-IN-2

Cat. No.:	HY-133084
CAS No.:	2743576-56-7
Molecular Formula:	C ₁₆ H ₁₈ ClN ₅ O ₂
Molecular Weight:	347.8
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-2 is a ERK2 inhibitor with an IC ₅₀ value of 1.8 nM. ERK-IN-2 might lead to off-target toxicity and/or off-target activity at dose >10 μM ^[1] .
IC₅₀ & Target	ERK2 1.8 nM (IC ₅₀)
In Vitro	ERK-IN-2 (ERKi) inhibits RSK phosphorylation with an IC ₅₀ of 280 nM ^[1] . ERK-IN-2 (ERKi, 1 μM) inhibits cell proliferation in cancer cell lines, with IC ₅₀ values of 214 nM; 305 nM; 91 nM and 201 nM for A375SM cell, SK-MEL 30 cell; Colo 205 cell and Lovo cell, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	ERK-IN-2 (1 mpk, p.o.; or 0.5 mpk, i.v.; rat) shows a t _{1/2} of 0.4 h, and F% of 13% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. MRK-ERK Inhibitor and Negative Control

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

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