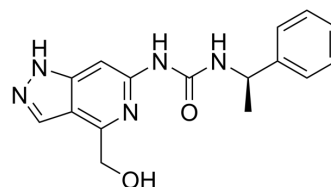


## ERK-IN-2 free base

Cat. No.:	HY-133084A
CAS No.:	2743576-55-6
Molecular Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	311.34
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

<b>Description</b>	ERK-IN-2 free base is a ERK2 inhibitor with an IC <sub>50</sub> value of 1.8 nM. ERK-IN-2 free base might lead to off-target toxicity and/or off-target activity at dose >10 μM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	ERK2 1.8 nM (IC <sub>50</sub> )
<b>In Vitro</b>	ERK-IN-2 (ERKi) inhibits RSK phosphorylation with an IC <sub>50</sub> of 280 nM <sup>[1]</sup> . ERK-IN-2 (ERKi, 1 μM) inhibits cell proliferation in cancer cell lines, with IC <sub>50</sub> 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	ERK-IN-2 (1 mpk, p.o.; or 0.5 mpk, i.v.; rat) shows a t <sub>1/2</sub> of 0.4 h, and F% of 13% <sup>[1]</sup> . 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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