Screening Libraries

7-Hydroxyneolamellarin A

Cat. No.: HY-N10330 CAS No.: 959662-26-1 Molecular Formula: C24H19NO5 **Molecular Weight:** 401.41

Target: HIF/HIF Prolyl-Hydroxylase; VEGFR

Pathway: Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK

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

Analysis.

Product Data Sheet

BIOLOGICAL ACTIVITY

Description

7-Hydroxyneolamellarin A is a natural product that could be derived from sponge Dendrilla nigra. 7-Hydroxyneolamellarin A is a potent hypoxia-inducible factor- 1α (HIF- 1α) inhibitor. 7-Hydroxyneolamellarin A attenuates the accumulation of $hypoxia-inducible factor \cdot 1\alpha \ (HIF-1\alpha) \ protein \ and \ inhibits \ vascular \ epidermal \ growth \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ 7-inducible \ factor \ (VEGF) \ transcriptional \ activity. \ (VEGF) \ transcriptional \ (VEGF) \ transcriptional \ activity. \ (VEGF) \ transcriptional \$ Hydroxyneolamellarin A can be used in research of cancer^[1].

In Vitro

7-Hydroxyneolamellarin A (0-150 μM; 12 h; Hela cells, MCF-7 cells and 4T1 cells) inhibits HIF-1 signaling pathway with low cytotoxicity^[1].

7-Hydroxyneolamellarin A (0-100 μ M; 12 h) reduces the mRNA levels of VEGF dose-dependently in Hela cells^[1].

7-hydroxyneolamellarin A (0-50 μ M; 36 h) inhibits Hela cells migration, invasion and proliferation^[1].

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

Western Blot Analysis^[1]

Cell Line:	Hela cells, MCF-7 cells and 4T1 cells
Concentration:	0, 50, 100, and 150 μM
Incubation Time:	12 hours
Result:	Decreased the HIF-1 α protein levels in a dose-dependent manner.

In Vivo

7-Hydroxyneolamellarin A (15 mg/kg; i.v.; BALB/c mice with 4T1 cells xenografts) inhibits tumor growth in vivo^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c mice with 4T1 cells xenografts ^[1]
Dosage:	15 mg/kg
Administration:	Intravenous injection; every 2 days for 16 days
Result:	Inhibited tumor growth in vivo.

REFERENCES

1]. Li G, et, al. Total synthesis a 2021 Oct 15;50:128338.	and biological evaluation of 7	-hydroxyneolamellarin A as hypo	xia-inducible factor- $1lpha$ inhibitor for cancer ther	apy. Bioorg Med Chem Lett.
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