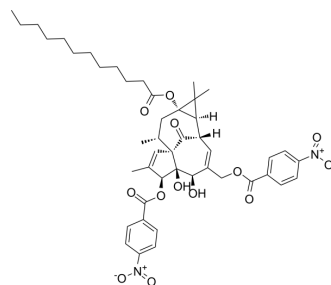


NSCLC-IN-1

Cat. No.:	HY-161388
Molecular Formula:	C ₄₆ H ₅₆ N ₂ O ₁₃
Molecular Weight:	844.94
Target:	Ferroptosis; Mitophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

NSCLC-IN-1 (Compound A10-2) induces mitophagy and ferroptosis through targeting transmembrane BAX inhibitor motif containing 6 (TMBIM6). NSCLC-IN-1 induces mitochondrial Ca²⁺ imbalance, leading to mitochondrial damage. NSCLC-IN-1 reduces intracellular glutathione (GSH), increases the accumulation of lipid peroxides (LPO) and malondialdehyde (MDA) content. NSCLC-IN-1 is a potent anti-NSCLC agent^[1].

REFERENCES

[1]. Wang Y, et al. 13-oxyingenol dodecanoate derivatives induce mitophagy and ferroptosis through targeting TMBIM6 as potential anti-NSCLC agents. *Eur J Med Chem.* 2024 Apr 15;270:116312.

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

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