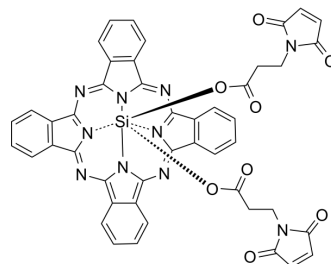


Mal-Pc

Cat. No.:	HY-151940
CAS No.:	2670367-74-3
Molecular Formula:	C ₄₆ H ₂₈ N ₁₀ O ₈ Si
Molecular Weight:	876.86
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mal-Pc is a versatile molecular photosensitizer designed based phthalocyanine and maleimides. Mal-Pc can react with GSH to deplete GSH and reduce aggregation, thereby improving ROS (Reactive Oxygen Species)-mediated effect of photodynamic therapy (PDT) in cancer cells ^[1] .
In Vitro	Having two maleimide axial substituents, Mal-Pc exhibits faster accumulation in cancer cells and then can react with GSH to deplete GSH and reduce aggregation, thereby improving ROS-mediated anticancer effect of PDT ^[1] . The fluorescence imaging demonstrated that Mal-Pc eliminate from normal cells faster due to the highly hydrophilic reaction product ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Juanjuan Chen, et al. Novel molecular photosensitizer with simultaneously GSH depletion, aggregation inhibition and accelerated elimination for improved and safe photodynamic therapy. *Eur J Med Chem.* 2023 Jan 5;245(Pt 1):114938.

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

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