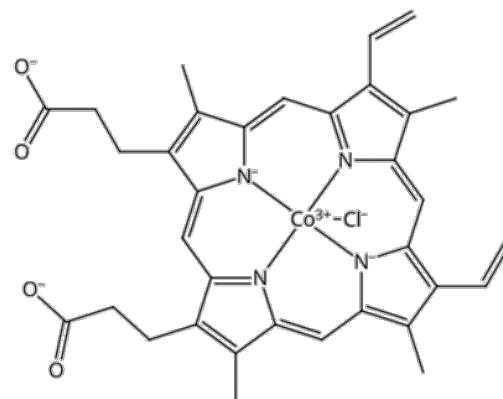


Product Name : Cobalt protoporphyrin IX chloride
Cat. No. : PC-73338
CAS No. : 102601-60-5
Molecular Formula : C₃₄H₃₀ClCoN₄O₄·2H
Molecular Weight : 655.03
Target : Keap1-Nrf2
Solubility : 10 mM in DMSO



• 2 H⁺

Biological Activity

Cobalt protoporphyrin IX (CoPPIX) is a potent and effective inducer of **HO-1** (heme oxygenase-1) activity, up-regulates HO-1 via **Bach1** and **Nrf2** in human liver cells.

CoPPIX did not influence hepatic Bach1 or Nrf2 mRNA levels, but markedly reduced Bach1 protein levels by increasing degradation of Bach1 protein, and increased Nrf2 by decreasing degradation of Nrf2 protein.

CoPPIX significantly upregulated HO-1 protein in mucosal and submucosal cells.

CoPPIX is a direct Bach1 inhibitor.

References

Ying Shan, et al. FASEB J. 2006 Dec;20(14):2651-3.

Berberat PO, et al. Inflamm Bowel Dis. 2005 Apr;11(4):350-9.

Manuj Ahuja, et al. Proc Natl Acad Sci U S A. 2021 Nov 9;118(45):e2111643118.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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