Zinc(II) Protoporphyrin IX

Heme oxygenase inhibitor

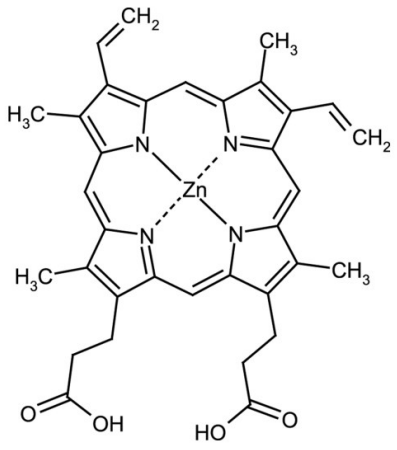
Potent and selective inhibitor of heme oxygenase (K_i=3nM), the enzyme that generates carbon monoxide (CO). Inhibits soluble guanylyl cyclase. Produces a time- and concentration-dependent inactivation of all three isoforms of nitric oxide synthase (IC_{50}=0.8μM, 4.0μM, and 5.0μM for nNOS (NOS I), iNOS (NOS II) and eNOS (NOS III), respectively). Does not cross the blood-brain barrier. An useful tool to elucidate the role of CO in signal transduction and as a neurotransmitter.

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Ordering Information Order Online »

ALX-430-049-M025	25mg
ALX-430-049-M100	100mg

Manuals, SDS & CofA View Online »


CH2
CH3
H3C
N
N
CH2
Zn
N
N
H3C
CH3
O
OH
HO
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 3 years after receipt when stored at -20°C. Make solutions fresh daily. Product may be unstable in solution if exposed to light.
Handling	Protect from light and moisture.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Dark solid.
CAS	15442-64-5
Couple Target	Heme oxygenase
Couple Type	Inhibitor
Formula	$C_{34}H_{32}N_4O_4Zn$
Identity	Identity determined by UV and NMR.
MW	626.0
Purity	≥95% (TLC)
Solubility	Soluble in pyridine, dimethyl formamide or DMSO. Colloidal in aqueous base; slightly soluble in aqueous base/organic solvent mixtures.

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