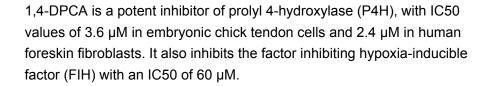
1,4-DPCA

Prolyl 4-hydroxylase (P4H) and hypoxiainducible factor (FIH) inhibitor



Key features and applications include:

- High Selectivity: Specifically inhibits prolyl 4-hydroxylase and FIH.
- Potency: Demonstrates strong inhibitory effects with IC50 values of 2-4 μM and 60 μM for P4H and FIH, respectively.
- **Stabilize HIF-1α Protein:** Inhibits prolyl-4-hydroxylases α isoforms, leading to increased HIF-1α stability.
- Suppress Connective Tissue Ingrowth: Effective in models of connective tissue ingrowth and collagen deposition.

Relevant disease states include:

- **Fibrosis**: Reduces collagen deposition, making it useful in studying fibrotic diseases.
- Cancer: Inhibits proliferation and invasive behavior of certain cancer cell lines.
- **Hypoxia-Related Conditions:** Stabilizes HIF-1α, which is relevant in conditions involving hypoxia.

Ordering Information

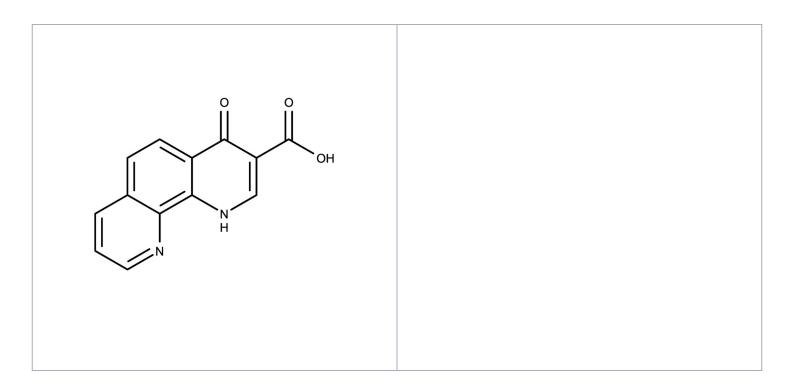
Order Online »

ENZ-CHM357-0025 25mg

Manuals, SDS & CofA

View Online »

GMP format available



Handling & Storage

Use/Stability As indicated on product label or CoA when stored as recommended. Solutions in DMSO

may be stored at -20° for up to 2 months.

Handling Keep container tightly closed in a dry and well-ventilated place.

Short Term Storage Ambient

Long Term Storage Ambient

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name 1,4-Dihydrophenonthrolin-4-one-3-carboxylic acid

Appearance Off-white solid.

CAS 331830-20-7

Couple Target FIH, Prolyl-4-hydroxylase

Couple Type Inhibitor

Formula $C_{13}H_8N_2O_3$

Identity Determined by NMR.

MW 240.22

Purity ≥98% (HPLC)

Solubility Soluble in DMSO (up to 15 mg/ml with warming).

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