

1,4-DPCA, Prolyl hydroxylase inhibitor

Catalog	Unit
TBI2956-5MG	5 mg
TBI2956-25MG	25 mg

Product Details

Formal Name: 1,4-Dihydrophenanthrolin-4-one-3-carboxylic acid

Molecular Formula: C₁₃H₈N₂O₃

Formula Weight: 240.22

CAS Number: 331830-20-7

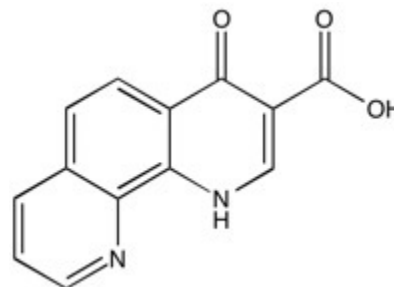
Purity: >98%

Formulation: powder

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

Storage: RT

Stability: ≥ 2 years.



Applications

Prolyl hydroxylase inhibitor

Functions

Potent inhibitor of prolyl 4-hydroxylase (IC₅₀=2-4 μM). Inhibits collagen deposition via inhibition of collagen proline hydroxylation. Subcutaneous injection of a 1,4-DPCA containing hydrogel into Swiss Webster mice that do not show a regenerative phenotype increased expression of HIF1α over 5 days. Multiple injections led to regenerative wound healing after ear hole punch injury.

Application Procedures

First dissolved in DMSO (up to 15 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 2 months.

For research use only.