



LKT Laboratories, Inc.

1,4-DPCA

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Product Information

Product ID D6108

CAS No. 331830-20-7

Chemical Name 4,4alpha-dihydro-4-oxo-1,10-phenanthroline-3-carboxylic acid

Synonym 1,4-Dihydrophenanthroline-4-one-3-carboxylic acid, 3-Acetyl-1H-[1,10]phenanthroline-4-one

Formula C₁₃H₈N₂O₃

Formula Wt. 240.22

Melting Point

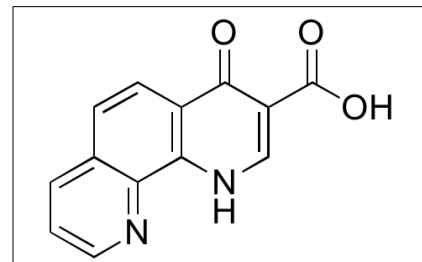
Purity ≥98%

Solubility Soluble in: DMSO (2.5 mg/mL, warm); ethanol (5 mg/mL, warm); DMF (5 mg/mL)

Store Temp -20° C

Ship Temp Ambient

Description 1,4-DPCA is an inhibitor of prolyl hydroxylase that stabilizes expression of HIF-1α and exhibits anticancer and pro-angiogenic activities. In breast cancer cells, 1,4-DPCA inhibits cell proliferation and decreases deposition of collagens I and IV. This compound also limits growth of connective tissue on biomaterials and implanted medical devices. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D6108	5 mg	\$37.20
D6108	25 mg	\$154.90

References Zhang Y, Strehin I, Bedelbaeva K, et al. Drug-induced regeneration in adult mice. *Sci Transl Med*. 2015 Jun 3;7(290):290ra92. PMID: 26041709.

Xiong G, Deng L, Zhu J, et al. Prolyl-4-hydroxylase α subunit 2 promotes breast cancer progression and metastasis by regulating collagen deposition. *BMC Cancer*. 2014 Jan 2;14:1. PMID: 24383403.

Love RJ, Jones KS. Transient inhibition of connective tissue infiltration and collagen deposition into porous poly(lactic-co-glycolic acid) discs. *J Biomed Mater Res A*. 2013 Dec;101(12):3599-606. PMID: 23766241.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.