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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-Dihydrophenonthrolin-4-one-3-carboxylic acid, 3-Acetyl-1H-[1,10]

phenanthrolin-4-one

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

 $\textbf{Description} \quad 1, 4\text{-DPCA is an inhibitor of prolyl hydroxylase that stabilizes expression of HIF-1} \alpha \text{ and exhibits anticancer and pro-angiogenic}$

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.

Bulk quanitites available upon request

 Product ID
 Size

 D6108
 5 mg

 D6108
 25 mg

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-coglycolic 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.