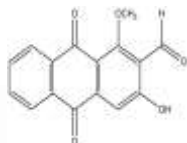


**PRODUCT: Damnacanthal****ALTERNATE NAME:** 3-Hydroxy-1-methoxyanthraquinone-2-aldehyde**CATALOG #:** B1094-1, 5**AMOUNT:** 1 mg, 5 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>16</sub>H<sub>10</sub>O<sub>5</sub>**MOLECULAR WEIGHT:** 282.25**CAS NUMBER:** 477-84-9**APPEARANCE:** Pale orange solid.**SOLUBILITY:** DMSO (>5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.

**DESCRIPTION:** Damnacanthal is a potent and inhibitor of p56lck tyrosine kinase and inhibits autophosphorylation with IC<sub>50</sub> of 17 nM and phosphorylation of exogenous substrates with IC<sub>50</sub> of 620 nM in cell free assays. Damnacanthal Displays 7- to 20-fold selectivity over p59<sup>lyn</sup> and p60<sup>src</sup> tyrosine kinases, > 40-fold selectivity over c-ErbB2, EGF- and insulin-receptor tyrosine kinases, and > 100-fold selectivity over PKA and PKC. Mobilizes intracellular Ca<sup>2+</sup> in dermal fibroblasts and inhibits Ras function. Also inhibits LIMK1/2, as well as migration and invasion of breast cancer cells *in vitro*.

**REFERENCES:** Hiramatsu, T., *et al.* (1993). *Cancer Lett.* **73**, 161-166.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

A83-01 (Cat. No. 1725-1)  
 ABT-869 (Cat. No. 1615-1,5)  
 Axitinib (Cat. No. 1581-5, 25)  
 BIBW2992 (Cat. No. 1616-1,5)  
 BMS-599626 (Cat. No. 1614-1,5)  
 Bosutinib (Cat. No. 1584-5, 25)  
 Canertinib (Cat. No. 1617-5)  
 Cediranib (Cat. No. 1613-1,5)  
 CP-690550 (Cat. No. 1622-5,25)  
 Crizotinib (Cat. No. 1934-5, 25)  
 Dasatinib (Cat. No. 1586-25, 100)  
 Emodin (Cat. No. 1875-25, 100)  
 Enzastaurin (LY317615)(Cat. No. 1619-1,5)  
 Erlotinib, Hydrochloride Salt (Cat. No. 1588-100,1000)  
 EZSolution™ Staurosporine (Cat. No. 1745-01)  
 Gefitinib (Cat. No. 1589-5,25)  
 Genistein (Cat. No. 1533-10, 100)  
 Go 6976 (Cat. No. 1711-500)  
 Imatinib Mesylate (Cat. No. 1625-100, 1000)  
 Lapatinib Ditosylate (Cat. No. 1624-25,100)  
 Nilotinib (Cat. No. 1750-25, 100)  
 PD 153035, Hydrochloride (Cat. No. 1656-2)  
 PD173074 (Cat. No. 1675-1)  
 Saracatinib (Cat. No. 1582-5, 25)  
 SB-431542 (Cat. No. 1674-1)  
 Sorafenib (Cat. No. 1594-5, 25)  
 Staurosporine (Cat. No. 1048-01,1)  
 Tamoxifen Citrate (Cat. No. 1551-1000)  
 SU 1498 (Cat. No. 1836-1,5)  
 SU-5402 (Cat. No. 1645-05)  
 Sunitinib Malate (Cat. No. 1611-100, 1000)  
 Tyrphostin AG 1295 (Cat. No. 1571-5)  
 Tyrphostin AG 490 (Cat. No. 1570-5)  
 Vandetanib (Cat. No. 1751-25, 100)

**USAGE:** FOR RESEARCH CH USE ONLY! Not to be used in humans