Product Name: Damnacanthal
Catalog No.: 1936
Batch No.: 1
CAS Number: 477-84-9
IUPAC Name: 9,10-Dihydro-3-hydroxy-1-methoxy-9,10-dioxo-2-anthracenecarboxaldehyde

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{16}H_{10}O_{5}
   Batch Molecular Weight: 282.25
   Physical Appearance: Yellow solid
   Solubility: DMSO to 25 mM
   Storage: Store at -20°C

   Batch Molecular Structure:

2. ANALYTICAL DATA

   Melting Point: Between 210 - 212°C
   HPLC: Shows 98.7% purity
   Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

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Description:
Potent inhibitor of p56lck tyrosine kinase activity (IC_{50} = 17 nM for inhibition of autophosphorylation). Displays 7- to 20-fold selectivity over p59fyn and p60src 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^{2+} in dermal fibroblasts and inhibits Ras function. Also inhibits LIMK1/2, as well as migration and invasion of breast cancer cells in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C_{16}H_{10}O_{5}
Batch Molecular Weight: 282.25
Physical Appearance: Yellow solid
Minimum Purity: >98%

Solubility & Usage Info:
DMSO to 25 mM
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: