

Product Data Sheet

Product Name: Coumarin-3-carboxylic Acid

Cat. No.: GC38238

Chemical Properties

Cas. No. 531-81-7

SMILES O=C(O1C(C(O)=O)=CC2=C1C=CC=C2

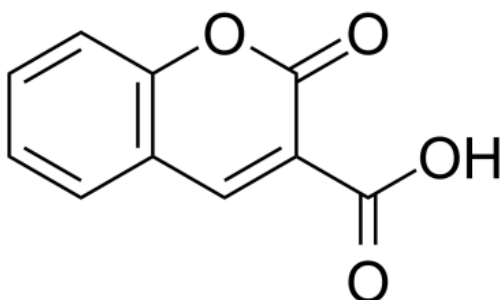
Formula $C_{10}H_6O_4$ M.Wt 190.15

Solubility 33mg/ml in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Coumarin-3-carboxylic acid (2- Oxochromene-3-carboxylic acid) is an important initial compound for the synthesis of coumarins which are well known natural products for their diverse biological activities. Lanthanide complexes of Coumarin-3-carboxylic acid exhibit antiproliferative activity towards K-562 cell line[1][2].

[1]. Aimin Song, et al. A convenient synthesis of coumarin-3-carboxylic acids via Knoevenagel condensation of Meldrum's acid with ortho-hydroxyaryl aldehydes or ketones. Tetrahedron Letters. 2003 Feb;44(9): 1755-1758. [2]. Kostova I, et al. New Samarium(III), Gadolinium(III), and Dysprosium(III) Complexes of Coumarin-3-Carboxylic Acid as Antiproliferative Agents. Met Based Drugs. 2007;2007:15925.

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