

Product Data Sheet

Product Name: SPB
Cat. No.: GC33619

Chemical Properties

Cas. No. 858128-57-1

SMILES O=C(ON1C(CCC1=O)=O)CCCOCC2=C(O3)C(C=CC3=O)=CC4=C2OC=C4

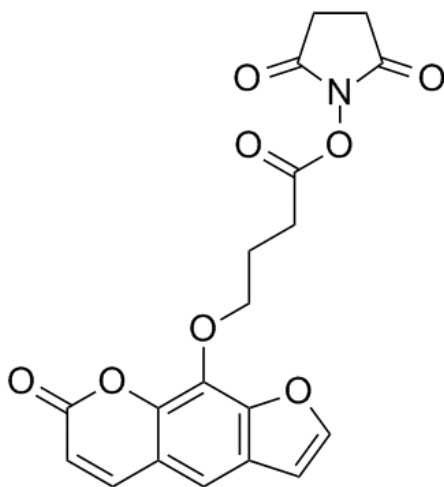
Formula $C_{19}H_{15}NO_8$ M.Wt 385.32

Solubility DMSO : ≥ 34 mg/mL (88.24 mM) 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

SPB is a key component of pulmonary surfactant, essential for normal lung function.

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

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Human SP-B gene but not mouse SP-B is expressed in the lung of hTG SP-B-C and SP-B-T mice. For infected SP-B-C mice, the levels of bioluminescence increase rapidly from 0 to 24h after infection, remains high between 24 and 32 h, and then decreases; the bioluminescence levels are significantly lower ($p < 0.01$) in the CMC2.24 treated group from 24 to 48 h after infection. In infected SP-B-T mice, the peak time of bioluminescence is at 12 h after infection, then the level decreases slowly. Lung tissues from infected SP-B-C mice showed more apoptotic cells compared to infected SP-B-T mice. CMC2.24 treated SP-B-C and SP-B-T mice have decreased MMP-2, -9, and -12 activities compared to their respective untreated groups[1].

[1]. Xu Y, et al. DIFFERENTIAL SUSCEPTIBILITY OF HUMAN SP-B GENETIC VARIANTS ON LUNG INJURY CAUSED BY BACTERIAL PNEUMONIA AND THE EFFECT OF A CHEMICALLY MODIFIED CURCUMIN. Shock. 2016 Apr;45(4):375-84.

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