

Product Data Sheet

Product Name: Anti-inflammatory agent 38

Cat. No.: GC70979

Chemical Properties

Cas. No. 3032633-42-1

Formula $C_{36}H_{46}N_2O_{13}S$ M.Wt 746.82

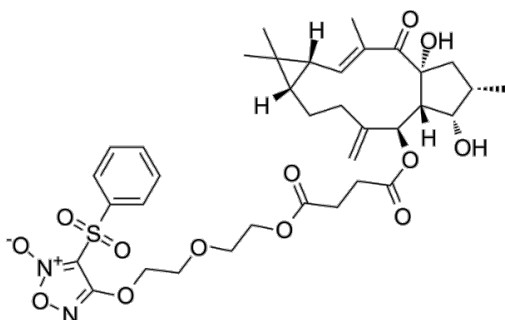
Solubility DMSO : 100 mg/mL (133.90 mM);
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

Storage 4°C, protect from light

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

Anti-inflammatory agent 38 (compound 23d) is a potent Nrf2/HO-1 pathway inhibitor, with an IC₅₀ value of 0.38 μM for NO. Anti-inflammatory agent 38 can significantly reduce the level of ROS in cells. Anti-inflammatory agent 38 can be used for researching anti-inflammatory.

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

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Anti-inflammatory agent 38 (compound 23d) (0.25, 0.5, 1 and 2 μ M; 3 hours) can reduce ROS production in RAW264.7 cells stimulated with LPS (0.5 μ g/mL LPS stimulates for 12 hours)^[1]. Anti-inflammatory agent 38 (0.25, 0.5, 1 and 2 μ M; 3 hours) significantly increases the expression of Nrf2 and HO-1 in LPS-stimulated RAW264.7 cells in a dose-dependent manner, and promoting LPS-induced Nrf2 nuclear translocation^[1]

References:

[1]. Wang W, et al. Synthesis of lathyrane diterpenoid nitrogen-containing heterocyclic derivatives and evaluation of their anti-inflammatory activities. Bioorg Med Chem.

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