

Product Data Sheet

Product Name: Anti-inflammatory agent 51

Cat. No.: GC71352

Chemical Properties

Cas. No. 2911610-03-0

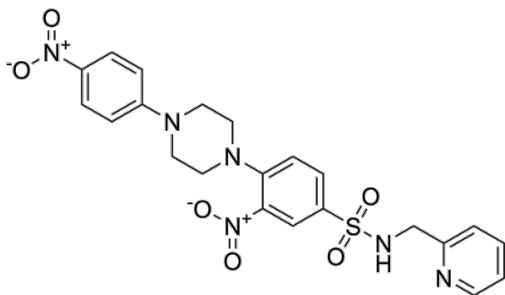
Formula $C_{22}H_{22}N_6O_6S$ M.Wt 498.51

Solubility DMSO : 125 mg/mL (250.75 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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 51 (compound 11d) is an amide/sulfonamide derivative with anti-inflammatory activities. Anti-inflammatory agent 51 inhibits NF-κB activation, has the potential for acute lung injury and ulcerative colitis research.

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

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Anti-inflammatory agent 51 (compound 11d) potently reduces the release of IL-6 (IC₅₀ value of 0.61 μM) and TNF-α (IC₅₀ of 4.34 μM), and decreased the mRNA level of cytokines in J774A.1 cells. Anti-inflammatory agent 51 restores IκBα and inhibits the translocation of phosphorylated p65 into the nucleus^[1].

Anti-inflammatory agent 51 (compound 11d) improved LPS-induced acute lung injury (ALI) and alleviated DSS-induced ulcerative colitis in mice^[1].

References:

[1]. Pan Chen, et al. Design, synthesis, and bioactivity evaluation of novel amide/sulfonamide derivatives as potential anti-inflammatory agents against acute lung injury and ulcerative colitis. Eur J Med Chem. 2023 Aug 2;259:115706.

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