

Product Data Sheet

Product Name: Fluacrypyrim

Cat. No.: GD12845

Chemical Properties

Cas. No. 229977-93-9

Formula $C_{20}H_{21}F_3N_2O_5$ M.Wt 426.39

Solubility Storage -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

Fluacrypyrim, a Miticide, is a STAT3 inhibitor. Fluacrypyrim significantly increases the protein tyrosine phosphatases (PTPs) activity. Fluacrypyrim inhibits the growth of leukemia cells by a predominant G1 arrest with significant decrease of the protein and mRNA levels of cyclin D1. Fluacrypyrim selectively inhibits STAT3 signaling, inducing growth arrest and apoptosis in STAT3-dependent cancer cells. Fluacrypyrim mitigates IR-induced hematopoietic system injury mainly by preventing apoptosis in the HSCs. Fluacrypyrim demonstrates significant analgesic and anti-inflammatory effects by inhibiting uterine smooth muscle contraction and inflammatory responses^{[1][2][3][4]}.

References:

[1]. Zhang X, et al. Fluacrypyrim Protects Hematopoietic Stem and Progenitor Cells against Irradiation via Apoptosis Prevention. *Molecules*. 2024 Feb 9;29(4):816.

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

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