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## Product Data Sheet

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Product Name: Ro24-7429

Cat. No.: GC63979

### Chemical Properties

Cas. No. 139339-45-0

Formula C<sub>14</sub>H<sub>13</sub>CIN<sub>4</sub>

M.Wt 272.73

Solubility DMSO : 62.5 mg/mL (229.16 mM; Need ultrasonic) 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

Ro24-7429 is a potent and orally active HIV-1 transactivator protein Tat antagonist. Ro24-7429 is also a runt-related transcription factor 1 (RUNX1) inhibitor. Ro24-7429 has anti-HIV, antifibrotic and anti-inflammatory effects[1][2].

Ro 24-7429 (0.1-5 μM; 3 days) induces apoptosis of cultured PBMCs in a dose-dependent manner[1]. Ro 24-7429 (1-25 μM) also induces apoptosis and inhibits antigen-induced lymphocyte proliferation[1]. Ro24-7429 (50-200 μM; 24-72 hours) strongly inhibits the proliferation of A549 and HLF cells in a dose-dependent manner. Ro24-7429 treatment (75 μM) significantly reduces TNF-α-induced up-regulation of RUNX1 mRNA by 50% at 48 hours[2].

Ro24-7429 (17.5-70 mg/kg; i.p.; daily; for 14 or 21 days) treatment robustly ameliorates lung fibrosis and inflammation in the Bleomycin-induced pulmonary fibrosis (PF) mouse model. Ro24-7429 curbs expression of fibrosis markers in injured mouse lungs[2].

[1]. A H Patki, et al. HIV-1 Tat protein and its inhibitor Ro 24-7429 inhibit lymphocyte proliferation and induce apoptosis in peripheral blood mononuclear cells from healthy donors. Cell Immunol. 1996 Apr 10;169(1):40-6.

[2]. Michael O'Hare, et al. Targeting Runt-Related Transcription Factor 1 Prevents

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

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Pulmonary Fibrosis and Reduces Expression of Severe Acute Respiratory Syndrome Coronavirus 2 Host Mediators. Am J Pathol. 2021 Jul;191(7):1193-1208.

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