

Product Data Sheet

Product Name: Smurf1-IN-1

Cat. No.: GC73229

Chemical Properties

Cas. No. 1824708-03-3

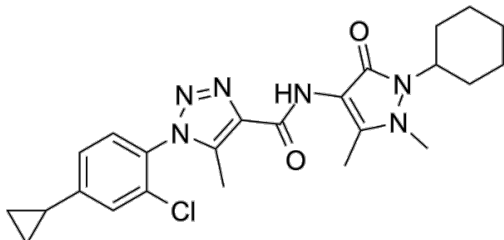
Formula $C_{24}H_{29}ClN_6O_2$ M.Wt 468.98

Solubility DMSO : 100 mg/mL (213.23 mM; Storage -20°C
Need ultrasonic)

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

Smurf1-IN-1 is an orally active and selective inhibitor of specific E3 ubiquitin protein ligase 1 (SMURF1) with an IC₅₀ of 92 nM. Smurf1-IN-1 has significant efficacy in rats model of pulmonary pertension.

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

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Smurf1-IN-1 (Compound 38) (1, 3, 10 mg/kg for p.o.) has significant efficacy in rats model of pulmonary pertension[1]. Smurf1-IN-1 (1 mg/kg for i.v., 3 mg/kg for p.o.) shows a T_{1/2} of 7.9, and oral bioavailability of 82%[1]. Pharmacokinetic parameters for Smurf1-IN-1 (Compound 38) in rats [1]

References:

[1]. Shaw DE, et.al. Design and Synthesis of Inhibitors of the E3 Ligase SMAD Specific E3 Ubiquitin Protein Ligase 1 as a Treatment for Lung Remodeling in Pulmonary Arterial pertension. J Med Chem. 2023 Jun 22;66(12):8130-8139.

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