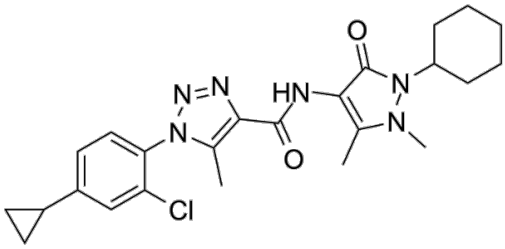
Product Data Sheet

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; Need ultrasonic)	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

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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 T1/2 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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