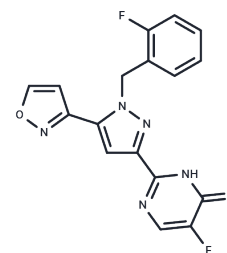


IWP-051

Chemical Properties

CAS No. : 1354041-91-0
 Formula: C₁₇H₁₁F₂N₅O₂
 Molecular Weight: 355.3
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	IWP-051 is a potent, orally active sGC stimulator (EC ₅₀ = 290nM). IWP-051 showed >99% plasma protein binding, high metabolic stability, high permeability, and no efflux in a Caco-2 model of intestinal absorption. IWP-051 achieves good alignment of potency, stability, selectivity, and pharmacodynamic effects while maintaining favorable pharmacokinetic properties with once-daily dosing potential in humans.
Targets(IC50)	Others, Guanylate cyclase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8145 mL	14.0726 mL	28.1452 mL
5 mM	0.5629 mL	2.8145 mL	5.629 mL
10 mM	0.2815 mL	1.4073 mL	2.8145 mL
50 mM	0.0563 mL	0.2815 mL	0.5629 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Discovery of IWP-051, a Novel Orally Bioavailable sGC Stimulator with Once-Daily Dosing Potential in Humans Takashi Nakai, Nicholas R. Perl, Timothy C. Barden, Andrew Carvalho, Angelika Fretzen, Peter Germano, G-Yoon J. Im, Hong Jin, Charles Kim, Thomas W.-H. Lee, Kimberly Long, Joel Moore, Jason M. Rohde, Renee Sarno, Chrissie Segal, Erik O. Solberg, Jenny Tobin, Daniel P. Zimmer, and Mark G. Currie Publication Date (Web): February 24, 2016 (Letter) DOI: 10.1021/acsmchemlett.5b00479
 BMC Pharmacol Toxicol. 2015; 16(Suppl 1): PMCID: PMC4565103 Discovery of IWP-051, a novel orally bioavailable soluble guanylate cyclase stimulator with sustained and dose-dependent hemodynamic effects Takashi Nakai,1 Nicholas R Perl,1 Rajesh R Iyengar,corresponding author1 Ara Mermerian,et al.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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