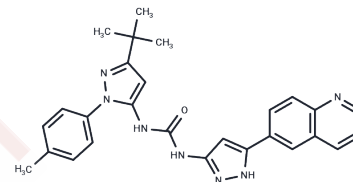


## Pyk2-IN-2

## Chemical Properties

CAS No. :	1271418-15-5
Formula:	C <sub>27</sub> H <sub>27</sub> N <sub>7</sub> O
Molecular Weight:	465.55
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	Pyk2-IN-2 (compound 13j) acts as a Pyk2 inhibitor, exhibiting an IC <sub>50</sub> value of 0.608 μM for FAK kinase [1].
Targets(IC <sub>50</sub> )	FAK, PYK2
In vitro	Pyk2-IN-2 (compound 13j) has an IC <sub>50</sub> value of 55 nM against PYK2 cells [1].
In vivo	The HLM blood clearance rate of Pyk2-IN-2 (compound 13j) is 31 mL/min/kg [1]. In pharmacokinetic studies on male Wistar-Han rats [1], the following data was observed: For intravenous administration at a dose of 1 mg/kg, the half-life (t <sub>1/2</sub> ) was 2.0 hours, plasma clearance (Cl <sub>p</sub> ) was 2.0 mL/min/kg, and steady-state volume of distribution (Vd <sub>ss</sub> ) was 0.15 L/kg. For the oral administration at a dose of 30 mg/kg, the maximum concentration (C <sub>max</sub> ) was 61324 nM, calculated free maximum concentration (Calc C <sub>max</sub> free) was 184 nM, with a bioavailability (%F) of 47, and plasma protein binding (PPB, fu) of 0.003.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.740 mL	21.480 mL
5 mM	0.4296 mL	2.148 mL	4.296 mL
10 mM	0.2148 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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