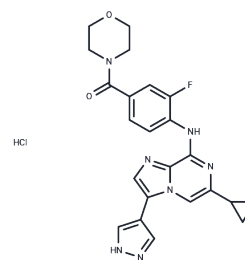


## BRK inhibitor P21d hydrochloride

## Chemical Properties

CAS No. :	2250025-98-8
Formula:	C <sub>23</sub> H <sub>23</sub> ClFN <sub>7</sub> O <sub>2</sub>
Molecular Weight:	483.93
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	BRK inhibitor P21d hydrochloride is a highly potent inhibitor of breast tumor kinase (BRK/PTK6), displaying an IC <sub>50</sub> of 30 nM, and effectively suppresses p-SAM68 with an IC <sub>50</sub> of 52 nM. This compound serves as a valuable tool for evaluating BRK inhibitors' efficacy in xenograft breast tumor models, enabling in vivo activity assessment.
Targets(IC <sub>50</sub> )	Others,BTK
In vitro	BRK inhibitor P21d hydrochloride (compound 21d) inhibits Aurora B and Lck with an IC <sub>50</sub> of greater than 20 μM for each target[1].
In vivo	The BRK inhibitor P21d hydrochloride, also known as compound 21d, demonstrates significantly enhanced permeability (CACO-2: 314 nm/s) and pharmacokinetic (PK) properties. When administered orally at a dose of 10 mpk in rats, it exhibits an AUC from 0 to 6 hours of 31.1 μM·h and a concentration of 3.5 μM at the 6-hour mark [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0664 mL	10.3321 mL	20.6641 mL
5 mM	0.4133 mL	2.0664 mL	4.1328 mL
10 mM	0.2066 mL	1.0332 mL	2.0664 mL
50 mM	0.0413 mL	0.2066 mL	0.4133 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

Hongbo Zeng, et al. Discovery of Novel imidazo[1,2-a]pyrazin-8-amines as Brk/PTK6 Inhibitors. Bioorg Med Chem Lett. 2011 Oct 1;21(19):5870-5.

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