

P 218

## Chemical Properties

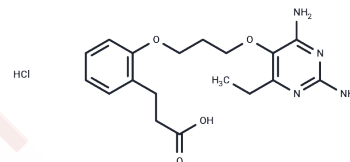
CAS No. : 1142407-60-0

Formula: C<sub>18</sub>H<sub>25</sub>ClN<sub>4</sub>O<sub>4</sub>

Molecular Weight: 396.87

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	P 218 is a novel DHFR inhibitor with antimalarial activity and antifolate effects and can be used to study Buruli ulcer.
Targets(IC50)	DHFR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5197 mL	12.5986 mL	25.1972 mL
5 mM	0.5039 mL	2.5197 mL	5.0394 mL
10 mM	0.252 mL	1.2599 mL	2.5197 mL
50 mM	0.0504 mL	0.252 mL	0.5039 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

Meirelles MA, et al. Functionalization of 2,4-Dichloropyrimidines by 2,2,6,6-Tetramethylpiperidyl Zinc Base Enables Modular Synthesis of Antimalarial Diaminopyrimidine P218 and Analogues. J Org Chem. 2023 Jul 7;88(13):9475-9487.

Posayapisit N, et al. Susceptibility of Southeast Asian Plasmodium falciparum isolates to P218. Int J Antimicrob Agents. 2023 Jul;62(1):106838.

B Henry N, et al. Assessment of the transmission blocking activity of antimalarial compounds by membrane feeding assays using natural Plasmodium falciparum gametocyte isolates from West-Africa. PLoS One. 2023 Jul 26;18(7):e0284751.

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

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