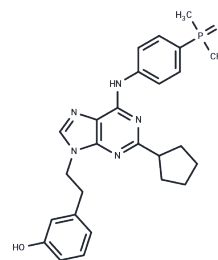


AP23464

Chemical Properties

CAS No. :	845895-51-4
Formula:	C ₂₆ H ₃₀ N ₅ O ₂ P
Molecular Weight:	475.52
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	AP23464 represents a highly specialized ATP-based small molecule tyrosine kinase inhibitor specifically engineered to target the catalytic domain of Abl and Src kinases along with the Kit receptor with exceptional inhibitory potency and selectivity, effectively facilitating the measurable blockade of phosphorylation-mediated signaling across various preclinical experimental models to evaluate the suppression of oncogenic driver activities during strictly monitored laboratory observation periods and biochemical investigations to ensure high experimental sensitivity.
Targets(IC50)	Others
In vitro	In cell proliferation assays using Bcr-Abl mutant cell lines and Kit-mutant Ba/F3 cells, AP23464 inhibited phosphorylation with IC50 values of 1-14 nM [1].
In vivo	In Bcr-Abl-driven leukemia and Kit-mutant xenograft models, systemic administration of AP23464 significantly reduced tumor volume and prolonged animal survival [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.103 mL	10.5148 mL	21.0296 mL
5 mM	0.4206 mL	2.103 mL	4.2059 mL
10 mM	0.2103 mL	1.0515 mL	2.103 mL
50 mM	0.0421 mL	0.2103 mL	0.4206 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

Corbin AS, et al., In vitro and in vivo activity of ATP-based kinase inhibitors AP23464 and AP23848 against activation-loop mutants of Kit. Blood. 2005 Jul 1;106(1):227-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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