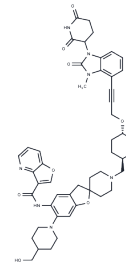


APH02174

## Chemical Properties

CAS No. :	3065494-66-5
Formula:	C49H55N7O8
Molecular Weight:	870.00
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	APH02174 is a highly selective and orally active IRAK4PROTAC degrader, with a DC50 of 4.01 nM in THP-1 cells. It blocks inflammatory signaling by inhibiting IL-6 release and is applicable for researching inflammatory diseases such as psoriasis and rheumatoid arthritis.
Targets(IC50)	Interleukin,IRAK,PROTACs
In vitro	APH02174, in the concentration range of 0.24-1000 nM, selectively degrades IRAK4 protein in various cells, including THP-1 (DC50 = 4.01 nM), hPBMCs (DC50 = 0.43 nM), and mouse PBMCs (DC50 = 3.57 nM). Additionally, at 0.03-2000 nM for 24 hours, APH02174 significantly inhibits LPS-induced IL-6 release in hPBMCs with an IC50 of 16.43 nM.
In vivo	APH02174 administered orally at doses of 10-100 mg/kg twice daily for 7 days can reduce skin inflammation induced by IMQ and degrade IRAK4 protein levels in the spleen of psoriatic mice. Additionally, APH02174 at 30 or 100 mg/kg once daily for 14 days significantly alleviates arthritis in rheumatoid arthritis mouse models.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1494 mL	5.7471 mL	11.4943 mL
5 mM	0.2299 mL	1.1494 mL	2.2989 mL
10 mM	0.1149 mL	0.5747 mL	1.1494 mL
50 mM	0.023 mL	0.1149 mL	0.2299 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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