

KBD4466

## Chemical Properties

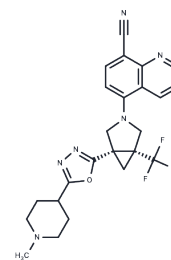
CAS No. : 3023713-87-0

Formula: C<sub>24</sub>H<sub>23</sub>F<sub>3</sub>N<sub>6</sub>O

Molecular Weight: 468.47

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	KBD4466 is a potent oral inhibitor of TLR7 and TLR8, with IC <sub>50</sub> values of 0.9 nM and 2.8 nM, respectively. This compound effectively suppresses the inflammatory cytokines IL-6 and IFN- $\alpha$ . KBD4466 has shown to improve disease progression and increase survival rates in the BXSb/MpJ mouse model of systemic lupus erythematosus (SLE). It is suitable for research into autoimmune diseases.
Targets(IC <sub>50</sub> )	IFNAR, Interleukin, TLR
In vitro	KBD4466 (Compound 19) inhibits the activity of TLR7 and TLR8.
In vivo	KBD4466 (Compound 19) (1 mg/kg, oral, single dose) inhibits the production of IL-6 and IFN- $\alpha$ in a mouse model challenged with R848. Additionally, KBD4466 (10 mg/kg, oral, daily for 14 weeks) alleviates disease symptoms in the BXSb/MpJ mouse model of lupus.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1346 mL	10.673 mL	21.3461 mL
5 mM	0.4269 mL	2.1346 mL	4.2692 mL
10 mM	0.2135 mL	1.0673 mL	2.1346 mL
50 mM	0.0427 mL	0.2135 mL	0.4269 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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