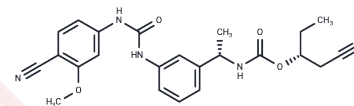


VX-148

## Chemical Properties

CAS No. : 297730-05-3  
 Formula: C<sub>23</sub>H<sub>25</sub>N<sub>5</sub>O<sub>4</sub>  
 Molecular Weight: 435.48  
 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	VX-148 is a novel, non-competitive IMPDH inhibitor with a K(i) value of 6 nM for IMPDH Type II enzyme. It is slightly more effective than mycophenolic acid and VX-497 in inhibiting the proliferation of primary human lymphocytes (IC <sub>50</sub> ) approximately 80 nM). The presence of exogenous guanosine can mitigate VX-148's inhibitory activity. Notably, VX-148 does not impede the proliferation of non-lymphocyte types such as fibroblasts, indicating selective inhibition of IMPDH activity. The compound exhibits oral bioavailability in rats and mice; oral administration of VX-148 inhibits the primary antibody response in mice in a dose-dependent manner, with an ED <sub>50</sub> of 38 mg/kg b.i.d. Additionally, in mice, VX-148 at a dosage of 100 mg/kg b.i.d. significantly prolongs skin graft survival time.
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2963 mL	11.4816 mL	22.9632 mL
5 mM	0.4593 mL	2.2963 mL	4.5926 mL
10 mM	0.2296 mL	1.1482 mL	2.2963 mL
50 mM	0.0459 mL	0.2296 mL	0.4593 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**

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481