

## Microtubule destabilizing agent-3, negative control

## Chemical Properties

CAS No. :	2734582-91-1
Formula:	C17H18N4S
Molecular Weight:	310.42
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	Microtubule destabilizing agent-3, negative control, is an analog of B32B3 and serves as the negative control for Microtubule destabilizing agent-3. This agent functions as a microtubule destabilizer by disrupting microtubule stability, which promotes mitotic arrest and exhibits an anti-myeloma phenotype, ultimately leading to cell death. It can also induce G2/M phase arrest and caspase-dependent apoptosis.
In vitro	Microtubule destabilizing agent-3, negative control (VPR4), does not demonstrate thermal stabilization of DCAF1 in CETSA.
In vivo	The study utilized C57Bl/6 and B6.SJL-Ptprca Pepcb/BoyJ (Ptprca) mice. A dosage of 15 mg/kg was administered intraperitoneally (i.p.) over a regimen of 5 consecutive days followed by a 2-day break. Results demonstrated a reduction in lymphoma progression biomarkers, such as spleen weight and peripheral blood and nodal tumor burden. Ten days of continued treatment significantly increased overall survival, extending the median from 17 days in the vehicle group to 22 days in the VPR8 group. The compound was effective in both tp53 wild-type and tp53-null EμMyc lymphoma models.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2214 mL	16.1072 mL	32.2144 mL
5 mM	0.6443 mL	3.2214 mL	6.4429 mL
10 mM	0.3221 mL	1.6107 mL	3.2214 mL
50 mM	0.0644 mL	0.3221 mL	0.6443 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

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