# Data Sheet (Cat.No.T12985)



## SPD304 dihydrochloride

Chemical Propert	ies	
CAS No. :	1049741-03-8	H <sub>1</sub> C
Formula:	C32H34Cl2F3N3O2	
Molecular Weight:	620.53	
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year	, HCI

### **Biological Description**

Description	SPD304 dihydrochloride is a selective inhibitor of TNF- $\alpha$ with an IC50 of 22 $\mu$ M. SPD304 dihydrochloride promotes dissociation of TNF trimers.	
Targets(IC50)	TNF	
In vitro	The survivability of aHSCs is significantly rescued by SPD304 dihydrochloride (2 $\mu$ M). The production of lipid hydroxides and intracellular GSH are increased as well. GA (75 $\mu$ M) and SPD304 dihydrochloride (2 $\mu$ M) downregulate TRADD (almost 2-fold) and p–RIP3 (1.4–fold) compared to GA and promote the activation of caspase 8[4].	

Solubility Information	
Solubility	DMSO: 6.2 mg/mL (10 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6115 mL	8.0576 mL	16.1153 mL
5 mM	0.3223 mL	1.6115 mL	3.2231 mL
10 mM	0.1612 mL	0.8058 mL	1.6115 mL
50 mM	0.0322 mL	0.1612 mL	0.3223 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.

#### Reference

Molly M. He, et al. Small-Molecule Inhibition of TNF- $\alpha$ . Science 11 Nov 2005.

Alexiou P, et al. Rationally designed less toxic SPD-304 analogs and preliminary evaluation of their TNF inhibitory

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