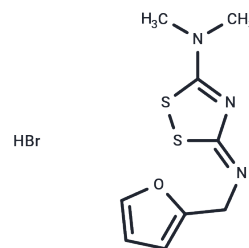


NSC622608

## Chemical Properties

CAS No. : 2593254-90-9  
 Formula: C<sub>9</sub>H<sub>12</sub>BrN<sub>3</sub>O<sub>5</sub>  
 Molecular Weight: 322.24  
 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	NSC622608 is a small-molecule ligand for V-domain Ig suppressor of T-cell activation (VISTA) which is an immune checkpoint that affects the ability of T-cells to attack tumors.
Targets(IC50)	Others,PD-1/PD-L1
In vitro	NSC622608 blocked VISTA signaling in vitro, enhanced T-cell proliferation, and restored T-cell activation in the presence of VISTA-expressing cancer cell lines[1].

## Solubility Information

Solubility	DMSO: 27.8 mg/mL (86.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.78 mg/mL (8.63 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1033 mL	15.5164 mL	31.0328 mL
5 mM	0.6207 mL	3.1033 mL	6.2066 mL
10 mM	0.3103 mL	1.5516 mL	3.1033 mL
50 mM	0.0621 mL	0.3103 mL	0.6207 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.

### Reference

Gabr MT, Gambhir SS. Discovery and Optimization of Small-Molecule Ligands for V-Domain Ig Suppressor of T-Cell Activation (VISTA). J Am Chem Soc. 2020 Sep 23;142(38):16194-16198.

Tang D, Zhao L, Yan F, et al. Expression of VISTA regulated via IFN- $\gamma$  governs endogenous T-cell function and exhibits correlation with the efficacy of CD19 CAR-T cell treated B-malignant mice. Journal for ImmunoTherapy of Cancer. 2024, 12(6).

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