

## diABZI STING agonist-1 (Tautomerism)

## Chemical Properties

CAS No. : 2138498-18-5

Formula: C42H51N13O7

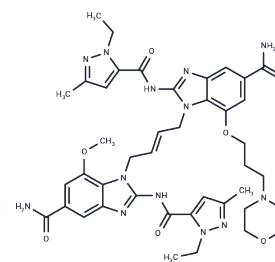
Molecular Weight: 849.94

Store at low temperature, Keep away from direct sunlight, The compound is unstable in solution.

Storage: Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	diABZI STING agonist-1 (Tautomerism) (diABZI STING agonist (Compound 3)) is a selective stimulator of interferon genes (STING) receptor agonist, with EC50s of 130, 186 nM for human and mouse, respectively.
Targets(IC50)	STING
In vitro	diABZI STING agonist-1 (Tautomerism) is a selective stimulator of interferon gene (STING) receptor agonists, with EC50 of 130 and 186 nM for humans and mice, respectively. diABZI STING agonist-1 (Tautomerism) at a concentration of 1 μM showed high selectivity for more than 350 kinases tested[1].
In vivo	diABZI STING agonist-1 (Tautomerism)(subcutaneous injection; 2.5 mg/kg) induces STING-dependent activation of type I interferon and proinflammatory cytokines in vivo. diABZI STING agonist-1 (Tautomerism) (intravenous; 3 mg/kg) exhibited systemic exposure with a half-life of 1.4 hours and reached a systemic concentration greater than half the maximum effective concentration of STING in mice (EC50) 200 ng/kg ml). diABZI STING agonist-1 (Tautomerism) (intravenous; 1.5 mg / kg; 43 days) can significantly inhibit tumor growth and significantly improve survival rate (P <0.001). Eight out of 10 mice are tumor-free[1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (117.66 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.1766 mL	5.8828 mL	11.7655 mL
5 mM	0.2353 mL	1.1766 mL	2.3531 mL
10 mM	0.1177 mL	0.5883 mL	1.1766 mL
50 mM	0.0235 mL	0.1177 mL	0.2353 mL

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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

Ramanjulu JM, et al. Design of amidobenzimidazole STING receptor agonists with systemic activity. Nature. 2018 Nov 7.

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