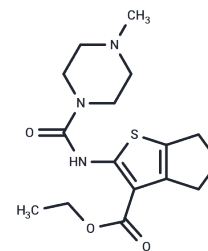


SMU127

Chemical Properties

CAS No. : 903864-87-9
 Formula: C₁₆H₂₃N₃O₃S
 Molecular Weight: 337.44
 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	SMU127 is an agonist of the toll-like receptor 1/2 (TLR1/2) heterodimer.
Targets(IC50)	Others,TLR,TNF
In vitro	It induces NF-κB signaling in cells expressing human TLR2 (EC50= 0.55 μM) but not cells expressing human TLR3, -4, -5, -7, or -8 when used at concentrations ranging from 0.1 to 100 μM. SMU127 induces the production of TNF-α in isolated human peripheral blood mononuclear cells (PBMCs) when used at concentrations ranging from 0.01 to 1 μM.
In vivo	In vivo, SMU127 (0.1 mg/animal) reduces tumor volume in a 4T1 murine mammary carcinoma model.

Solubility Information

Solubility	DMF:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.59 mM),Sonication is recommended. DMSO: Slightly soluble DMF: 1 mg/mL (2.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9635 mL	14.8174 mL	29.6349 mL
5 mM	0.5927 mL	2.9635 mL	5.927 mL
10 mM	0.2963 mL	1.4817 mL	2.9635 mL
50 mM	0.0593 mL	0.2963 mL	0.5927 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

Chen, Z., Cen, X., Yang, J., et al. Structure-based discovery of a specific TLR1-TLR2 small molecule agonist from the ZINC drug library database. *Chem. Commun. (Camb.)* 54(81)11411-11414(2018)

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