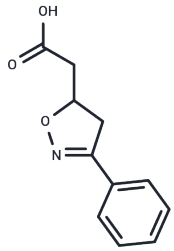
Data Sheet (Cat.No.T1813)

TargetMol

VGX-1027

Chemical Properties



CAS No. : 6501-72-0

Formula: C11H11NO3

Molecular Weight: 205.21

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	VGX-1027 (GIT 27) is an isoxazole compound with various immunomodulatory properties.
Targets(IC50)	IL Receptor,Interleukin,TNF
In vitro	VGX-1027 enhances survival rates and ameliorates clinical and histopathological signs in the NZB/NZW F1 model of systemic lupus erythematosus, thereby improving disease progression. It prevents the spontaneous development of Type 1 diabetes in NOD mice and counters the acceleration of diabetes induced either by cyclophosphamide assault or by the adoptive transfer of diabetogenic spleen cells in NOD mice. Furthermore, VGX-1027 reduces clinical symptoms of diabetes induced by MLD-STZ and inhibits pathological histological changes in the pancreas.
In vivo	VGX-1027 exhibits inhibitory effects on the proliferation of gut bacterial antigen-reactive CD4+ CD25- T cells in vitro. It significantly suppresses the accumulation of TNF-α and nitrites induced by IL-1β/IFN-γ, and notably enhances cell survival by interfering with the toxic effects of cytokines.

Solubility Information

Solubility	DMSO: 20.5 mg/mL (99.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.75 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8731 mL	24.3653 mL	48.7306 mL
5 mM	0.9746 mL	4.8731 mL	9.7461 mL
10 mM	0.4873 mL	2.4365 mL	4.8731 mL
50 mM	0.0975 mL	0.4873 mL	0.9746 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

Stosic-Grujicic S, et al. J Pharmacol Exp Ther. 2007, 320(3), 1038-1049.
Mangano K, et al. Eur J Pharmacol. 2008, 586(1-3), 313-321.