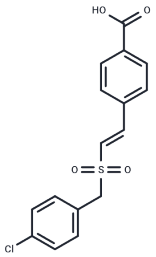
Data Sheet (Cat.No.T13862)

TargetMol

Recilisib

Chemical Properties



CAS No. : 334969-03-8

Formula: C16H13ClO4S

Molecular Weight: 336.79

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	Recilisib (ON 01210) is a radioprotectant that activates AKT and PI3K activities in cells.
Targets(IC50)	Akt,PI3K
In vitro	Recilisib Sodium increases PI3K activity in HFL-1 cells and murine bone marrow cells in response to radiation exposure. Recilisib Sodium treatment in combination with radiation alters the MAPK signaling pathway.
In vivo	the rate of recovery and differentiation of primitive bone marrow myeloid progenitor cells in mice significantly increased by Recilisib Sodium. Recilisib Sodium in combination with radiation reduces CFU numbers in mice, but the Recilisib Sodium-treated mice consistently retain a capability to form differentiated colonies. Recilisib Sodium treated mice have a progenitor cell population that is never completely depleted by radiation exposure.

Solubility Information

Solubility	DMSO: 50 mg/mL (148.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.42 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	2.9692 mL	14.846 mL	29.6921 mL
5 mM	0.5938 mL	2.9692 mL	5.9384 mL
10 mM	0.2969 mL	1.4846 mL	2.9692 mL
50 mM	0.0594 mL	0.2969 mL	0.5938 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

Kang AD, et al. ON01210.Na (Ex-RAD) mitigates radiation damage through activation of the AKT pathway. PLoS One. 2013;8(3):e58355.