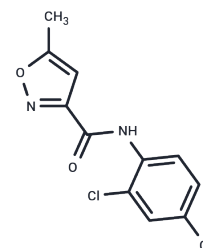


UTL-5g

## Chemical Properties

CAS No. : 646530-37-2  
 Formula: C<sub>11</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 271.1  
 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	UTL-5g (3-Isoxazolecarboxamide, N-(2,4-dichlorophenyl)-5-methyl-) is a novel potential chemoprotective agent, TNF- $\alpha$ inhibitor that reduces cisplatin-induced side effects including nephrotoxicity, hepatotoxicity and hematotoxicity. It lowers elevated levels of AST, ALT, creatinine, BUN, and TNF- $\alpha$ , increases the reduced platelet count in mice, and acts as a novel chemo- and radioprotective agent.
Targets(IC50)	TNF
In vivo	UTL-5g (GBL-5g) reduces elevated TGF- $\beta$ and TNF- $\alpha$ levels resulting from lung irradiation[1].

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (101.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (7.38 mM),Sonication is recommended. <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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.6887 mL	18.4434 mL	36.8868 mL
5 mM	0.7377 mL	3.6887 mL	7.3774 mL
10 mM	0.3689 mL	1.8443 mL	3.6887 mL
50 mM	0.0738 mL	0.3689 mL	0.7377 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

Stephen Brown, et al. UTL-5g Lowers Levels of TGF- $\beta$  and TNF- $\alpha$  Elevated by Lung Irradiation

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481