

## T-2 Toxin

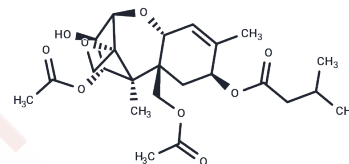
## Chemical Properties

CAS No. : 21259-20-1

Formula: C<sub>24</sub>H<sub>34</sub>O<sub>9</sub>

Molecular Weight: 466.52

Storage: Store at low temperature, Keep away from direct sunlight  
 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	T-2 Toxin (T-2 Mycotoxin) is a fungal secondary metabolite produced by various <i>Fusarium</i> species in feed and grains, which is highly toxic to reproduction and induces a variety of cardiovascular toxicities. T-2 Toxin is an inhibitor of peptidyl transferase (60s ribosomal subunit) binding and protein synthesis. T-2 Toxin is an inhibitor of peptidyl transferase (60s ribosomal subunit) binding and protein synthesis, induces TM4 cell dysfunction via ROS-induced apoptosis, inhibits DNA and RNA synthesis, and increases hepatic lipid peroxidation levels.
Targets(IC50)	Apoptosis, DNA/RNA Synthesis, ROS
In vivo	The absolute oral bioavailability of T-2 toxin was low (17.07%) and most of the T-2 toxin was converted to metabolites by a single intravenous injection of T-2 toxin (0.5 mg/kg bw) and multiple oral doses (2.0 mg/kg bw every 12 h for 2 d) to broilers.[3]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1435 mL	10.7177 mL	21.4353 mL
5 mM	0.4287 mL	2.1435 mL	4.2871 mL
10 mM	0.2144 mL	1.0718 mL	2.1435 mL
50 mM	0.0429 mL	0.2144 mL	0.4287 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

T4S1616 Rollinger JM, et al. Venturia inaequalis-inhibiting Diels-Alder adducts from Morus root bark. J Agric Food Chem. 2006 Nov 1;54(22):8432-6.

Sun YX, et al. Toxicokinetics of T-2 toxin and its major metabolites in broiler chickens after intravenous and oral administration. J Vet Pharmacol Ther. 2015 Feb;38(1):80-5

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