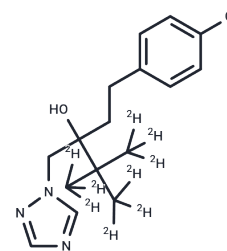


## Tebuconazole-D9

## Chemical Properties

CAS No. :	1246818-83-6
Formula:	C <sub>16</sub> H <sub>13</sub> ClD <sub>9</sub> N <sub>3</sub> O
Molecular Weight:	316.87
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	Tebuconazole-D9 is intended for use as an internal standard for the quantification of tebuconazole by GC- or LC-MS. Tebuconazole (T17022) is a triazole fungicide that is active against both seed and foliar fungi. It inhibits 14 $\alpha$ -demethylase isolated from <i>U. maydis</i> and <i>S. bicolor</i> with IC <sub>50</sub> values of 0.05 and 0.16 nM, respectively. It inhibits the androgenic effect of the androgen receptor agonist DHT (IC <sub>20</sub> = 2.89 $\mu$ M) and is cytotoxic (EC <sub>20</sub> = 38.9 $\mu$ M) in an MDA-kb2 assay. Tebuconazole (T17022) (50 and 100 mg/kg per day) administered during gestation reduces testosterone levels and increases testicular levels of progesterone and 17 $\alpha$ -hydroxyprogesterone in male rat fetuses. It has a feminizing effect on male pups and a virializing effect on female pups. When administered to rats gestationally through postnatal day 42, tebuconazole (20 and 60 mg/kg per day) leads to cell death of pyramidal cells in the CA3-4 region of the hippocampus and layer V of the cortex concomitant with impairment in learning.....
Targets(IC50)	Antifungal, Cytochromes P450

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1559 mL	15.7793 mL	31.5587 mL
5 mM	0.6312 mL	3.1559 mL	6.3117 mL
10 mM	0.3156 mL	1.5779 mL	3.1559 mL
50 mM	0.0631 mL	0.3156 mL	0.6312 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.

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