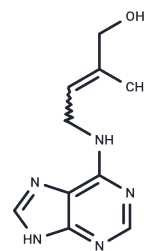


## trans-Zeatin

## Chemical Properties

CAS No. :	1637-39-4
Formula:	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O
Molecular Weight:	219.24
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	trans-Zeatin ((E)-Zeatin) is the member of the plant growth hormone family known as cytokinins, which regulate cell division, development, and nutrient processing.
Targets(IC50)	ERK,MEK,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 35.71 mg/mL (162.88 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: 1 mg/mL (4.56 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

	1mg	5mg	10mg
1 mM	4.5612 mL	22.8061 mL	45.6121 mL
5 mM	0.9122 mL	4.5612 mL	9.1224 mL
10 mM	0.4561 mL	2.2806 mL	4.5612 mL
50 mM	0.0912 mL	0.4561 mL	0.9122 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

Ji C, et al. Trans-Zeatin attenuates ultraviolet induced down-regulation of aquaporin-3 in cultured human skin keratinocytes. *Int J Mol Med*. 2010 Aug;26(2):257-63.

Li Q, et al. Endogenous trans-zeatin content in plants with different metal-accumulating ability: a field survey. *Environ Sci Pollut Res Int*. 2016 Dec;23(23):23422-23435. Epub 2016 Sep 9.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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