

## trans-Zeatinriboside

## Chemical Properties

CAS No. : 6025-53-2

Formula: C<sub>15</sub>H<sub>21</sub>N<sub>5</sub>O<sub>5</sub>

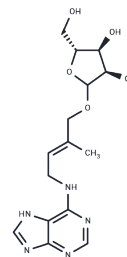
Molecular Weight: 351.36

Storage:

Keep away from direct sunlight,Keep away from moisture,Store at low temperature

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	trans-Zeatinriboside (Ribosylzeatin) is the most active and ubiquitous form of the naturally occurring cytokinins that promote cell division, stimulate shoot proliferation, inhibit root formation, slow the aging process, and activate gene expression and metabolic activity.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 260 mg/mL (739.98 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: 5 mg/mL (14.23 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	2.8461 mL	14.2304 mL	28.4608 mL
5 mM	0.5692 mL	2.8461 mL	5.6922 mL
10 mM	0.2846 mL	1.423 mL	2.8461 mL
50 mM	0.0569 mL	0.2846 mL	0.5692 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

Osugi A, et al. Systemic transport of trans-zeatin and its precursor have differing roles in Arabidopsis shoots. Nat Plants. 2017 Jul 24;3:17112.

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