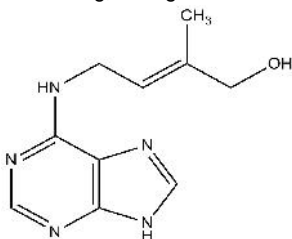


**PRODUCT: *trans*-Zeatin****RELATED PRODUCTS:****(+)-Abscisic acid (Cat. No. 2543-1, 5)****ALTERNATE NAME:** 2E-methyl-4-(9H-purin-6-ylamino)-2-buten-1-ol**CATALOG #:** 2542-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O**MOLECULAR WEIGHT:** 219.24**CAS No.** 1637-39-4**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO (~ 3 mg/ml)**PURITY:** ≥98%**STORAGE:** Store at -20°C. Protect from light and air

**DESCRIPTION:** *trans*-Zeatin belongs to the plant hormone family known as 'cytokinins', which regulate cell division, development, and nutrient processing. The biosynthesis of cytokinins involves isoprenylation of ATP or ADP, with *trans*-Zeatin being produced by the removal of phosphate and riboside groups from adenine and oxidation by cytochrome P735A. Cytokininins, including *trans*-Zeatin are pivotal in governing overall plant size and can extend the plant photosynthesis by delaying leaf aging and death.

**REFERENCE:** Zhang, K., *et al.* (2014). *Nat. Commun.* **5**, doi:10.1038/ncomms4274

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans.**