

# Kinetin

**Catalog No: tcsc1567**



## Available Sizes

**Size:** 1g

**Size:** 5g

**Size:** 25g

**Size:** 100g



## Specifications

**CAS No:**

525-79-1

**Formula:**

$C_{10}H_9N_5O$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 8.8 mg/mL (40.89 mM; Need warming)

**Alternative Names:**

6-Furfuryladenine;N6-Furfuryladenine

**Observed Molecular Weight:**

215.21

## Product Description

Kinetin (N6-furfuryladenine) belongs to a group of plant growth hormones involved in cell division, differentiation and other physiological processes.

IC50 Value:

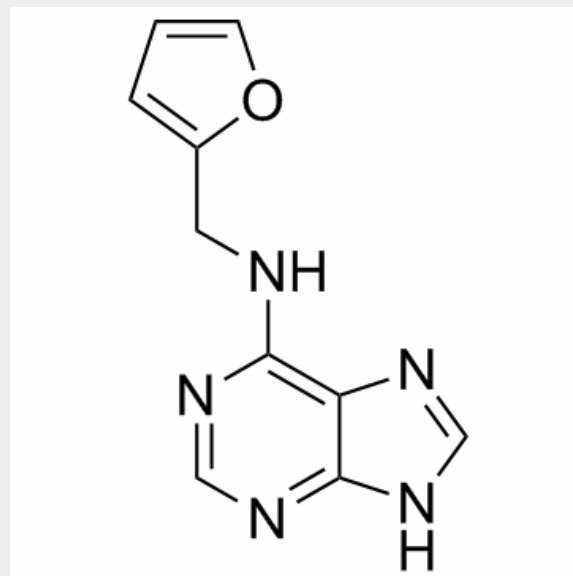
Target:

Kinetin is one of the widely used components in numerous skin care cosmetics and cosmeceuticals, such as Valeant products kinerase. Recently, kinetin has the potential to be a treatment for the human splicing disease familial dysautonomia.

in vitro: Kinetin-induced cell death reflected by the morphological changes of nuclei including their invagination, volume increase, chromatin condensation and degradation as well as formation of micronuclei showed by AO/EB and 4,6-diamidino-2-phenylindol staining was accompanied by changes including increase in conductivity of cell electrolytes secreted to culture media, decrease in the number of the G1- and G2-phase cells and appearance of fraction of hypoploid cells as the effect of DNA degradation without ladder formation [1]. The plant cytokinin kinetin dramatically increases exon 20 inclusion in RNA isolated from cultured FD cells [3].

in vivo: Subjects received 23.5 mg/Kg/d for 28 d. An increase in WT IKBKAP mRNA expression in leukocytes was noted after 8 d in six of eight individuals; after 28 d, the mean increase compared with baseline was significant ( $p = 0.002$ ) [2].

Toxicity: On mice with leukaemia P388, kinetin has no effect on the tumour growth, and it appears to be toxic at the dose of 25 mg/kg [4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!