

Product Name:	6-(γ,γ-Dimethylallylamino)purine riboside
Product Number:	D026
CAS Number:	7724-76-7
Molecular Formula:	C ₁₅ H ₂₁ N ₅ O ₄
Molecular Weight:	335.36
Form:	Powder
Appearance:	White or off-white crystalline powder
Source:	Synthetic
Elemental Analysis:	Carbon: 52.6-54.8% Nitrogen: 20.3-21.4%
Storage Conditions:	-20 °C
Description:	<p>6-(γ,γ-Dimethylallylamino)purine riboside (2-iP riboside) is a cytokinin growth regulator which can be produced endogenously by plants to direct differentiation of callus cells. It is currently being investigated as an emerging anticancer drug. It demonstrates the ability to induce cell cycle arrest and apoptosis.</p> <p>6-(γ,γ-Dimethylallylamino)purine riboside is freely soluble in HCl and sparingly soluble in water.</p>
Plant Biology Applications	6-(γ,γ-Dimethylallylamino)purine riboside can be used in plant tissue culture to induce shoot bud formation and increase plant cell division.
References:	Castiglioni, S., Casati, S., Ottria, R., Ciuffreda, P., & A.M. Maier, J. (2013). N6-Isopentenyladenosine and its analogue N6-Benzyladenosine induce cell cycle arrest and Apoptosis in bladder carcinoma T24 cells. Anti-Cancer Agents in Medicinal Chemistry, 13(4), 672–678.