



5-lodotubercidin

Catalog No: tcsc0897

Available Sizes	
Size: 2mg	
Size: 5mg	
Size: 25mg	
Size: 50mg	
Specifications	
CAS No: 24386-93-4	
Formula: C ₁₁ H ₁₃ IN ₄ O ₄	
Pathway: Metabolic Enzyme/Protease;Neuronal Signaling	
Target: Adenosine Kinase;Adenosine Kinase	
Purity / Grade: >98%	
Solubility: DMSO : ≥ 49 mg/mL (124.95 mM)	
Alternative Names: NSC 113939; 5-ITu	
Observed Molecular Weight: 392.15	





Product Description

5-lodotubercidin is a potent **adenosine kinase** inhibitor with IC_{50} of 26 nM.

IC50 & Target: IC50: 26 nM (adenosine kinase)

In Vitro: 5-lodotubercidin (40 μ M) enhances the rate of phosphorylase inactivation and shortens the lag before the activation of glycogen synthase. 5-lodotubercidin (50 μ M) antagonizes the effects of glucagon and vasopressin, but does not affect the basal concentration of free calcium in single hepatocytes^[1]. 5-lodotubercidin (20 μ M) causes an important decrease in ATP concentration, and a concomitant smaller increase in AMP concentration. 5-lodotubercidin decreases the activity of ACC and the rates of synthesis of fatty acids and cholesterol. In line with the iodotubercidin-mediated inhibition of ACC, 5-iodotubercidin induces a marked decrease in the intracellular concentration of malonyl-CoA^[3]. 5-lodotubercidin causes a strong decrease in the immunofluorescence levels of P-T3-H3, and depletion of P-T3-H3 is complete at 10 μ M 5-5-iodotubercidin^[4].

In Vivo: 5-lodotubercidin (1 mL/kg, i.p.) is in agreement with activity observed against bicuculline-induced seizures following local administration of the AKI into the prepiriform cortex^[2].

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