



N3PT

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Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications Specifications
CAS No: 13860-66-7
Formula: C ₁₃ H ₁₉ Cl ₂ N ₃ OS
Pathway: Others
Farget: Others
Purity / Grade: >98%
Solubility: L0 mM in DMSO
Alternative Names: N3-pyridyl thiamine
Observed Molecular Weight: 336.28





Product Description

N3PT(N3-pyridyl thiamine) is a potent and selective transketolase(TK) inhibitor (IC50= 22 nM for Apo-TK) both in vitro and in vivo.

IC50 Value: 22 nM(Apo-TK); 26 nM (EC50, Cellular TK) [1]

Target: transketolase

in vitro: N3PT inhibits transketolase activity in a cell based assay. Competitive inhibition of TK by N3PT in cells treated with increasing doses of thiamine, expressed as percentage enzymatic activity (the slope of initial linear range) of controls not treated with compounds [1].

in vivo: Tumors were induced in mice at day 0 and mice were then treated at day 7 with vehicle alone or with N3PT [2]. Low-thiamine diet enhances the sensitivity to N3PT inhibition of TK in spleen. Animals were switched to diets containing 16.5 mg/kg (unchanged), 5 mg/kg, 1 mg/kg, or 0 mg/kg thiamine, from a normal chow containing 16.5 mg/kg thiamine [1].

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