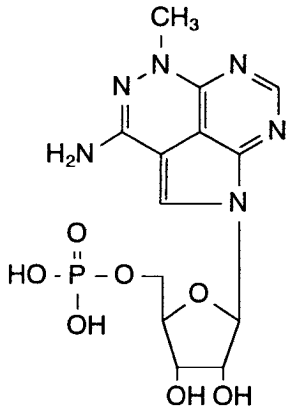
TRICIRABINE PHOSPHATE

NSC - 280594



Chemical Name:
1,5-Dihydro-5-methyl-1-(5-*O*-phosphono-β-*D*-ribofuranosyl)-1,4,5,6,8-pentaazaacenaphthylen-3-amine, monohydrate

Other Names:
Tricyclic Nucleoside 5′-Phosphate

CAS Registry Number: 61966-08-3

Molecular Formula: $C_{13}H_{17}N_6O_7P \cdot H_2O$ **M.W.:** 418.3

Approximate Solubility: (mg/mL)

MeOH	< 1
DMSO	1 - 5
DMF	< 1
Trifluoroacetic acid	> 50
H_2O	< 1

pH 4 Acetate buffer	< 1
pH 9 Borate buffer	1 - 5
pH 9 Carbonate buffer	10 - 15
0.1 N HCl	< 1
10% EtOH	< 1
95% EtOH	< 1

Stability:

Bulk:
A sample stored at 60 °C for 30 days showed no decomposition (TLC or UV).

Solution:
A solution (.0156 mg/mL) in pH 9 carbonate-bicarbonate buffer showed no decomposition after 9 days (UV).

Ultraviolet Absorption:

(0.1 N NaOH)

λ_{max} = 292 ± 2 nm ε = 11,700 - 12,500

High Performance Liquid Chromatography:

Column:	μBondapak C_{18} 300mm x 3.9 mm i.d.
Mobile Phase:	Methanol/pH 7 0.01 M phosphate buffer with 0.005 M tetrabutyl-ammonium hydroxide 25/75, v/v.
Flow Rate:	1 mL/min

Detection: UV at 254 nm

Sample Preparation: pH 9 carbonate buffer containing internal standard

Internal Standard: acetanilide

Retention Volume: 25.6 mL (NSC-280594)

Toxicity Data:

Mouse(ip): LD_{50}: 193 mg/kg
NCI Screening Program Data Summary

Mouse(iv): LD_{50}: 109 mg/kg
NCI Screening Program Data Summary