

Perifosine (NSC 639966) Laboratory Information

Information on Clinical Conditions¹			
Topic	Conditions	Comments	References
Stock solution	Solutions of 0.1-30 μ M perifosine were diluted with 100 mM PBS	Stable enough for assay work but no definitive data.	Patel (Cancer Res 2002; 62:1401)
Stock solution	10 mM phosphate buffer at 4 °C.	Stable for experiment but no definitive data	Grosman (Immunopharmacology 1999; 44:211)
Stock solution	10 mM saline at 4 °C	Stable for experiment but no definitive data	Grosman (International Immunopharmacology 2001;1:1321)
Stock solution	DMSO	Solubility not high enough to ensure dilution to non-critical solvent concentrations in working solution	In house information
Stock solution	Solutions prepared in culture medium either made freshly or thawed from previously frozen aliquots	No indication of loss of activity.	In house information
Sample Storage Stability	QC samples in human plasma, from 20-1600 ng/ml, at -20 °C	Stable for storage up to 6 months (stability in buffers probably better).	Knebel (J Chromatography B 1999;721:257)

Information on Bulk Drug Substance (API) ²			
Topic	Conditions	Comments	References
Bulk Storage	API (Bulk Drug Substance)	Stable for 2 years at 30 °C. Keep container tightly sealed to avoid absorbing moisture.	In house information
General Solubility Info (at 20 °C)	Water: 0.1 M NaOH: 0.1 M HCl: methanol: ethanol: n-octanol: glycerin:	293 mg/ml 323 mg/ml 280 mg/ml > 800 mg/ml 301 mg/ml 201 mg/ml 100 mg/ml	In house information
Mol. Weight:		461.66	
Mol. Formula:		C ₂₅ H ₅₂ NO ₄ P	
Chemical Name:		4-([Hydroxy (octadecyloxy) phosphophinyl] oxy)-1,1-dimethyl-piperidine, inner salt Product exists as piperidinium inner (methyl) salt	
Other:	absorption of water	Perifosine is hygroscopic and will absorb water (up to 13% w/w) if left open up but does not form hydrates. As perifosine is not easily hydrolyzed in aqueous solution under normal storage conditions, absorption of water is unlikely to affect pharmacological activity of the drug substance.	

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Notes

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