



LKT Laboratories, Inc.

Pifithrin- α -cyclic Hydrobromide

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Product Information

Product ID P327212

CAS No. 511296-88-1

Chemical Name

Synonym

Formula $C_{16}H_{16}N_2S \cdot HBr$

Formula Wt. 349.29

Melting Point

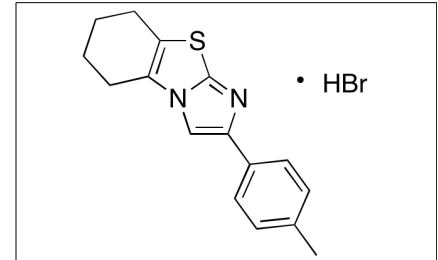
Purity $\geq 98\%$

Solubility Soluble in ethanol to 25 mM
and in DMSO to 100 mM

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Pifithrin- α -cyclic is a more stable and less cytotoxic analog of pifithrin- α . Pifithrin- α is a small molecule inhibitor of p53 shown to prevent neuronal death induced by DNA damage. Pifithrin- α has also been found to interfere in heat shock and glucocorticoid receptor signaling pathways. Both in vivo and in vitro pifithrin- α inhibited firefly luciferase activity.



Bulk quantities available upon request

Product ID	Size
P327212	5 mg
P327212	10 mg
P327212	25 mg
P327212	100 mg

References Komarova EA, Nenanov N, Komarov PG, et al. p53 inhibitor pifithrin alpha can suppress heat shock and glucocorticoid signaling pathways. *J Biol Chem.* 2003 May 2;278(18):15465-15468. PMID: 12637507.

Rocha S, Campbell KJ, Roche KC, et al. The p53-inhibitor pifithrin- α inhibits firefly luciferase activity in vivo and in vitro. *BMC Mol Biol.* 2003 Sep 11;4:9. PMID: 12967348.

Kanno S, Kurachi K, Tomizawa A, et al. Pifithrin- α has a p53-independent cytoprotective effect on docosahexaenoic acid-induced cytotoxicity in human hepatocellular carcinoma HepG2 cells. *Toxicol Lett.* 2015 Jan 22, 232(2):393-402. PMID: 25448278.

Murphy PJ, Galigniana MD, Morishima Y, et al. Pifithrin- α inhibits p53 signaling after interaction of the tumor suppressor protein with hsp90 and its nuclear translocation. *J Biol Chem.* 2004 Jul 16;279(29):30195-30201. PMID: 15145929.

Zuco V, Zunino F. Cyclic pifithrin- α sensitizes wild type p53 tumor cells to antimicrotubule agent-induced apoptosis. *Neoplasia.* 2008 Jun;10(6):587-596. PMID: 18516295.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.