



LKT Laboratories, Inc.

Pifithrin- α Hydrobromide

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID P327211

CAS No. 63208-82-2

Chemical Name 2-(2-imino-4,5,6,7-tetrahydro-1,3-benzothiazol-3-yl)-1-(4-methylphenyl)ethanone;hydrobromide

Synonym Pifithrin-alpha.HBr, PFT-alpha

Formula C₁₆H₁₈N₂OS • HBr

Formula Wt. 367.31

Melting Point

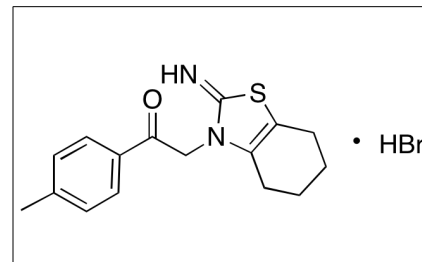
Purity ≥98%

Solubility Soluble in DMSO to 100 mM

Store Temp -20°C

Ship Temp Ambient

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



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P327211	5 mg	\$75.10
P327211	10 mg	\$120.20
P327211	25 mg	\$285.60
P327211	100 mg	\$788.90

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-alpha 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-alpha 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-alpha 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.

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