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## **Product Information**

Product ID P327212 CAS No. 511296-88-1

Chemical Name 2-(4-methylphenyl)-5,6,7,8-tetrahydroimidazo[2,1-b][1,3]

benzothiazole; hydrobromide

Synonym Pifithrin-beta hydrobromide

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

Formula Wt. 349.29

**Melting Point** 

Purity ≥98%

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

HBr

## **Pricing and Availability**

Bulk quanitites available upon request

Product ID	Size	List Price
P327212	5 mg	\$75.10
P327212	10 mg	\$135.10
P327212	25 mg	\$285.60
P327212	100 ma	\$788 90

Store Temp -20°C Ship Temp Ambient

Description Pifithrin-alpha-cyclic is a more stable and less cytotoxic analog of pifithrin-alpha. 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.

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 acidinduced cytotoxicity in human hepatocellular carcinoma HepG2 cells. Toxicl 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.

Zuco V, Zunino F. Cyclic pifithrin-alpha 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.