



LKT Laboratories, Inc.

Pyridostatin Hydrochloride

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Product Information

Product ID P9870

CAS No. 1085412-37-8

Chemical Name

Synonym Pyridostatin Trihydrochloride

Formula $C_{31}H_{32}N_8O_5 \cdot 3HCl$

Formula Wt. 706.03

Melting Point

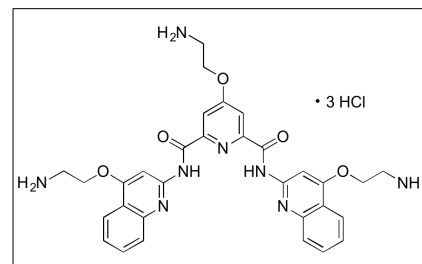
Purity $\geq 98\%$

Solubility H₂O: 15 mg/mL

Store Temp -20°C

Ship Temp Ambient

Description Pyridostatin is a G-quadruplex ligand that induces conformation changes in telomere-G-quadruplex complexes and stimulates double-stranded DNA breakage; it also alters telomere function. Pyridostatin displays antiviral and anticancer activities. In vitro, this compound decreases synthesis of Epstein-Barr virus-encoded nuclear antigen 1. In cancer cells, pyridostatin suppresses cellular viability and growth.



Bulk quantities available upon request

Product ID	Size
P9870	1 mg
P9870	5 mg
P9870	10 mg
P9870	25 mg

References Marchand A, Granzhan A, Iida K, et al. Ligand-Induced Conformational Changes with Cation Ejection upon Binding to Human Telomeric DNA G-Quadruplexes. *J Am Chem Soc.* 2015 Jan 21;137(2):750-6. PMID: 25525863.

Murat P, Zhong J, Lekieffre L, et al. G-quadruplexes regulate Epstein-Barr virus-encoded nuclear antigen 1 mRNA translation. *Nat Chem Biol.* 2014 May;10(5):358-64. PMID: 24633353.

McLuckie KI, Di Antonio M, Zecchini H, et al. G-quadruplex DNA as a molecular target for induced synthetic lethality in cancer cells. *J Am Chem Soc.* 2013 Jul 3;135(26):9640-3. PMID: 23782415.

Müller S, Sanders DA, Di Antonio M, et al. Pyridostatin analogues promote telomere dysfunction and long-term growth inhibition in human cancer cells. *Org Biomol Chem.* 2012 Aug 28;10(32):6537-46. PMID: 22790277.

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