



Product Information

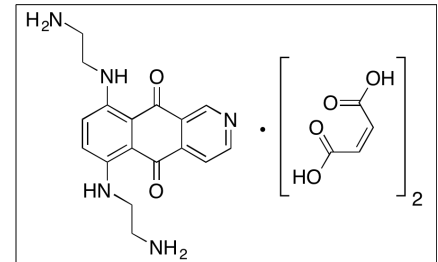
Product ID P3592
CAS No. 144675-97-8
Chemical Name 6,9-bis[(2-aminoethyl)amino]benzo[g]isoquinoline-5,10-dione

Synonym 5,8-bis(2-aminoethylamino)-1-azaanthracene-9,10-dione,
BBR2778

Formula $C_{17}H_{19}N_5O_2 \cdot (C_4H_4O_4)_2$
Formula Wt. 557.51
Melting Point
Purity $\geq 98\%$
Solubility

Store Temp Ambient
Ship Temp Ambient

Description Pixantrone is an anticancer chemotherapeutic and immunosuppressive aza-anthracenedione that acts as a DNA intercalator and topoisomerase II inhibitor; this compound intercalates via the major or minor grooves of DNA, binding to CpG or CpA motifs. In cellular models, pixantrone inhibits proliferation of T cells, but does not affect differentiation of dendritic cells or B cells. In clinical trials, pixantrone increases survival times of patients with relapsed or refractory aggressive non-Hodgkin's B-cell lymphoma. Pixantrone also shows potential benefit in the treatment of several other diseases. In cellular models, this compound decreases or prevents amyloid-B (A β) oligomerization, indicating a potential use in the treatment of Alzheimer's disease. Additionally, it decreases acetylcholine receptor (AChR)-specific immune responses and prevents and treats experimental autoimmune encephalitis (EAE) in animal models, suggesting potential benefit in the treatment of myasthenia gravis and multiple sclerosis.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P3592	10 mg	\$125.70
P3592	25 mg	\$235.50
P3592	100 mg	\$627.90

References Péan E, Flores B, Hudson I, et al. The European Medicines Agency review of pixantrone for the treatment of adult patients with multiply relapsed or refractory aggressive non-Hodgkin's B-cell lymphomas: summary of the scientific assessment of the committee for medicinal products for human use. *Oncologist*. 2013;18(5):625-33. PMID: 23615696.

Marolda R, Ruocco C, Cordiglieri C, et al. Differential targeting of immune-cells by Pixantrone in experimental myasthenia gravis. *J Neuroimmunol*. 2013 May 15;258(1-2):41-50. PMID: 23523328.

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Evison BJ, Chiu F, Pezzoni G, et al. Formaldehyde-activated Pixantrone is a monofunctional DNA alkylator that binds selectively to CpG and CpA doublets. *Mol Pharmacol*. 2008 Jul;74(1):184-94. PMID: 18413664.

Gonsette RE, Dubois B. Pixantrone (BBR2778): a new immunosuppressant in multiple sclerosis with a low cardiotoxicity. *J Neurol Sci*. 2004 Aug 15;223(1):81-6. Review. PMID: 15261566.

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