

Product Information

Product ID P8169
CAS No. 81-54-9
Chemical Name 1,2,4-Trihydroxy-9,10-anthracenedione

Synonym Hydroxylizaric acid, Verantin, Purpurine

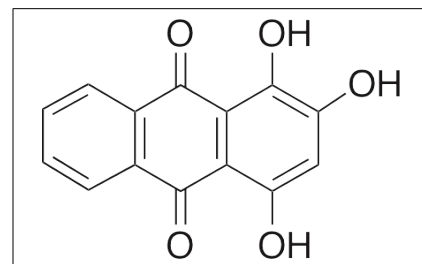
Formula C₁₄H₈O₅
Formula Wt. 256.21
Melting Point 253-256 °C
Purity ≥90%

Solubility Slightly soluble in water. Soluble in ethanol.

Store Temp 4 °C

Ship Temp Ambient

Description Purpurin is an anthraquinone found in madder root that is occasionally used as a pigment dye. Purpurin also exhibits anti-angiogenic, antifungal, antibiotic, and antioxidative activities. In vivo and in vitro, purpurin suppresses VEGF-induced cell invasion and tube formation by inhibiting adipocyte-derived leucine aminopeptidase. In other cellular models, purpurin acts as a radical scavenger. This compound inhibits growth of *Candida* by inducing apoptosis. Additionally, purpurin displays antibacterial activity against gram positive and gram negative bacteria by inhibiting O-acetylpeptidoglycan esterase.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P8169	1 g	\$54.60
P8169	5 g	\$127.70
P8169	25 g	\$501.30

References Park H, Shim JS, Kim BS, et al. Purpurin inhibits adipocyte-derived leucine aminopeptidase and angiogenesis in a zebrafish model. *Biochem Biophys Res Commun.* 2014 Jul 18;450(1):561-7. PMID: 24928393.

Tsang PW, Wong AP, Yang HP, et al. Purpurin triggers caspase-independent apoptosis in *Candida dubliniensis* biofilms. *PLoS One.* 2013 Dec 23;8(12):e86032. PMID: 24376900.

Pfeffer JM, Clarke AJ. Identification of the first known inhibitors of O-acetylpeptidoglycan esterase: a potential new antibacterial target. *Chembiochem.* 2012 Mar 19;13(5):722-31. PMID: 22351512.

Baghiani A, Charef N, Djarmouni M, et al. Free radical scavenging and antioxidant effects of some anthraquinone derivatives. *Med Chem.* 2011 Nov;7(6):639-44. PMID: 22313303.

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