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Product Information

Product ID A6818 CAS No. 464-74-4 **Chemical Name**

Synonym

Formula C₂₄H₃₂O₆ Formula Wt. 416.51

Melting Point

Purity ≥98%

Solubility 10mM in DMSO

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A6818	1 mg	\$87.60
A6818	5 mg	\$243.10
A6818	25 mg	\$875.00

Store Temp -20°C Ship Temp Ambient

Description Arenobufagin is a bufanolide steroid found in the Argentine toad *Bufo arenarum*. This compound exhibits anticancer

chemotherapeutic and anti-angiogenic properties, but is also cardiotoxic, inhibiting cardiovascular Na+/K+ pumps. In cellular models, are nobufagin induces autophagy and apoptosis, inhibiting tumor growth through indirect inhibition of the PI3K/Akt/mTOR signaling pathway. Arenobufagin also inhibits VEGFR2 directly through blockade of ATP-binding sites.

References Zhang DM, Liu JS, Deng LJ, et al. Arenobufagin, a natural bufadienolide from toad venom, induces apoptosis and autophagy in human hepatocellular carcinoma cells through inhibition of PI3K/Akt/mTOR pathway. Carcinogenesis. 2013 Jun;34(6):1331-42. PMID: 23393227.

> Li M, Wu S, Liu Z, et al. Arenobufagin, a bufadienolide compound from toad venom, inhibits VEGF-mediated angiogenesis through suppression of VEGFR-2 signaling pathway. Biochem Pharmacol. 2012 May 1;83(9):1251-60. PMID: 22305746.

Cruz Jdos S, Matsuda H. Arenobufagin, a compound in toad venom, blocks Na(+)-K+ pump current in cardiac myocytes. Eur J Pharmacol. 1993 Aug 3;239(1-3):223-6. PMID: 8223897.

Garraffo HM, Gros EG. Biosynthesis of bufadienolides in toads. VI. Experiments with [1,2-3H]cholesterol, [21-14C]coprostanol, and 5 beta-[21-14 C]pregnanolone in the toad Bufo arenarum. Steroids. 1986 Sep-Oct;48(3-4):251-7. PMID: 3127947.

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