

<b>Product Name:</b>	Menadione
<b>Product Number:</b>	M079
<b>CAS Number:</b>	58-27-5
<b>Molecular Formula:</b>	$C_{11}H_8O_2$
<b>Molecular Weight:</b>	172.18
<b>Description:</b>	<p>Menadione is also known as vitamin K3. It is the metabolic precursor of the vitamin K2 in mammals, so it is often used as a dietary supplement. It has also been tested as a possible anticancer agent able to induce apoptosis.</p> <p>TOKU-E offers two forms of menadione: menadione (M079) and <u>menadione sodium bisulfite (M080)</u>. Both forms have similar potencies and are suitable for microbiology use; however, menadione sodium bisulfite is easier to work with in aqueous solution.</p>
<b>References:</b>	<p>Hirota, Y., Tsugawa, N., Nakagawa, K., Suhara, Y., Tanaka, K., Uchino, Y., . . . Okano, T. (2013). Menadione (Vitamin K3) Is a Catabolic Product of Oral Phylloquinone (Vitamin K1) in the Intestine and a Circulating Precursor of Tissue Menaquinone-4 (Vitamin K2) in Rats. Journal of Biological Chemistry, 288(46), 33071-33080. doi:10.1074/jbc.m113.477356</p> <p>Suresh, S., Raghu, D., &amp; Karunagaran, D. (2013). Menadione (Vitamin K3) Induces Apoptosis of Human Oral Cancer Cells and Reduces their Metastatic Potential by Modulating the Expression of Epithelial to Mesenchymal Transition Markers and Inhibiting Migration. Asian Pacific Journal of Cancer Prevention, 14(9), 5461-5465. doi:10.7314/apjcp.2013.14.9.5461</p>