

Product Name:	Menadione sodium bisulfite
Product Number:	M080
CAS Number:	130-37-0
Molecular Formula:	$C_{11}H_9NaO_5S$
Molecular Weight:	276.24
Description:	<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: <u>menadione (M079)</u> and menadione sodium bisulfite (M080). Both forms have similar potencies and are suitable for microbiology use; however, menadione sodium bisulfite is easier to work with in aqueous solution.</p>
References:	<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. <i>Journal of Biological Chemistry</i>, 288(46), 33071-33080. doi:10.1074/jbc.m113.477356</p> <p>Suresh, S., Raghu, D., & Karunakaran, 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. <i>Asian Pacific Journal of Cancer Prevention</i>, 14(9), 5461-5465. doi:10.7314/apjcp.2013.14.9.5461</p>