

Matrine PRODUCT DATA SHEET

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Product Name:	Matrine
Product Number:	M075
CAS Number:	519-02-8
Molecular Formula:	C ₁₅ H ₂₄ N ₂ O
Molecular Weight:	248.36
Description:	Matrine is an alkaloid extracted from the Chinese <i>Sophora</i> herb plants. As a natural product it has a relatively low toxicity. Matrine has demonstrated antiviral and anti-inflammatory bioactivity. Additionally, it has been shown to induce apoptosis in many human cancer cell lines. TOKU-E also offers a few bioactive alkaloids similar to matrine: <u>Oxymatrine (O031)</u> and <u>Oxysophocarpine (O034)</u> .
	Matrine is soluble in water, benzene, chloroform, ether, carbon disulfide.
Mechanism of Action:	Key mechanisms proposed for the antitumor effects of matrine include regulating the expression of proliferation- and apoptosis-related genes or proteins, such as eIF4E, E2F-1, Fas, FasL, Bcl-2, Bax, and caspases.
References:	Zhang, S., Zhang, Y., Zhuang, Y., Wang, J., Ye, J., Zhang, S., Han, Y. (2012). Matrine Induces Apoptosis in Human Acute Myeloid Leukemia Cells via the Mitochondrial Pathway and Akt Inactivation. <i>PLoS ONE</i> , 7(10). doi:10.1371/journal.pone.0046853

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