

<b>Product Name:</b>	Cryptotanshinone
<b>Product Number:</b>	C207
<b>CAS Number:</b>	35825-57-1
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>20</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	296.36
<b>Description:</b>	<p>Cryptotanshinone is one of several bioactive tanshinones extracted from the Chinese medicinal herb, <i>Salvia miltiorrhiza</i>. It exhibits a variety of bioactivity including antibacterial, antioxidant and anti-inflammatory effects, but has more recently gained interest for its promise in the field of cancer treatment.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
<b>Mechanism of Action:</b>	<p>Cryptotanshinone's antitumor activity comes from its ability to inhibit STAT3 phosphorylation, which downstream inhibits cell growth promoter cyclin D1, and interferes with apoptosis inhibitors survivin and Bcl-xL.</p>
<b>References:</b>	<p>Shin, D., Kim, H., Shin, K., Yoon, Y., Kim, S., Han, D., &amp; Kwon, B. (2008) Cryptotanshinone Inhibits Constitutive Signal Transducer and Activator of Transcription 3 Function through Blocking the Dimerization in DU145 Prostate Cancer Cells. <i>Cancer Research</i>, 69(1), 193-202. doi:10.1158/0008-5472.CAN-08-2575</p> <p>Lee, D., Lee, S., Noh, J., &amp; Hong, S. (1999). Antibacterial Activities of Cryptotanshinone and Dihydrotanshinone I from a Medicinal Herb, <i>Salvia miltiorrhiza</i> Bunge. <i>Bioscience, Biotechnology, and Biochemistry</i>, 63(12), 2236-2239. doi:10.1271/bbb.63.2236</p>