

<b>Product Name:</b>	Streptonigrin
<b>Product Number:</b>	S071
<b>CAS Number:</b>	3930-19-6
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>22</sub> N <sub>4</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	506.5
<b>Appearance:</b>	Brown black solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Streptonigrin is an unusual aminoquinone with broad biological activity against bacteria, fungi, nematodes, viruses and tumor cells. Streptonigrin acts as a bioreductive agent, highly dependent on interactions with metal ions, notably iron, and plays an important role in free radical production through redox cycling of NAD(P)H:quinone oxidoreductase (NQO1).</p> <p>Streptonigrin is soluble in DMF and DMSO and is moderately soluble in methanol or ethanol.</p>
<b>References:</b>	<p>Targeting NAD(P)H:quinone oxidoreductase (NQO1) in pancreatic cancer. Lewis A.M. Mol. Carcinogen. 2005, 43, 215.</p> <p>Enhanced cytotoxicity of bioreductive antitumor agents with dimethyl fumarate in human glioblastoma cells. Gu B. &amp; DeAngelis L.M. Anticancer Drugs 2005, 16, 167.</p> <p>The effect of metal ions on the electrochemistry of the antitumor antibiotic streptonigrin. Anderberg P.I. J. Inorg. Biochem. 2004, 98, 720.</p>