

Product Name:	Violacein
Product Number:	V020
CAS Number:	548-54-9
Molecular Formula:	$C_{20}H_{13}N_3O_3$
Molecular Weight:	343.3
Appearance:	Violet blue solid
Storage Conditions:	-20°C
Description:	<p>Violacein is an intense violet pigment formed by the condensation of two tryptophan units, found in a number of bacteria, notably <i>Chromobacterium violaceum</i>. The regulation of pigment biosynthesis is the chromogenic basis for the use of <i>C. violaceum</i> CV26 for the detection of quorum sensing mediators. Violacein cell toxicity resembles TNF-α signal transduction.</p> <p>Violacein is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Violacein exhibits broad spectrum activity against bacteria, protozoans (including malaria), viruses and mammalian cell lines.</p>
References:	<p>The chemistry of bacteria. Part II. Some degradation products of violacein. Beer R.J.S. et al. J. Chem Soc. 1949, 885.</p> <p>Quorum sensing and <i>Chromobacterium violaceum</i>: exploitation of violacein production and inhibition for the detection of N-acyl homoserine lactones. McClean K.H. et al. Microbiol. 1997, 143, 3703.</p> <p>Molecular mechanism of violacein-mediated human leukemia cell death. Ferreira C.V. et al. Blood 2004, 104, 1459.</p>