

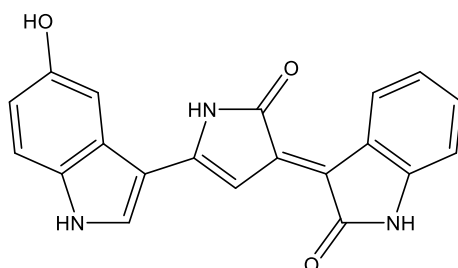
Catalog # 10-5073

Violacein

CAS# 548-54-9

(E)-3-(5-(5-Hydroxy-1H-indol-3-yl)-2-oxo-1H-pyrrol-3(2H)-ylidene)indolin-2-one

Lot # E108821



Displays immunostimulatory effects via the TLR8 receptor.¹ Induces death of Ras-mutated melanoma cells via down-regulation of HDAC6, AXL and AKT inhibiting autophagy.² Induces apoptosis in breast cancer cells by upregulating Bax, p53 and down regulating MDM2.³ Displays protective effects in an ALS model.⁴

- 1) Venegas *et al.* (2019), *The Bacterial Product Violacein Exerts an Immunostimulatory Effect Via TLR8*; Sci. Rep., **9** 13661
- 2) Goncalves *et al.* (2016), *Violacein induces death of RAS-mutated metastatic melanoma by impairing autophagy process*; Tumour Biol., **37** 14049
- 3) Alshatwi *et al.* (2016), *Violacein induces apoptosis in human breast cancer cells through up regulation of BAX, p53 and down regulation of MDM2*; Exp. Toxicol. Pathol., **68** 89
- 4) Olivera-Bravo *et al.* (2022), *Neuroprotective effects of violacein in a model of inherited amyotrophic lateral sclerosis*; Sci. Rep. **12** 4439

PHYSICAL DATA

Molecular Weight:	343.34
Molecular Formula:	C ₂₀ H ₁₃ N ₃ O ₃
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (Slightly soluble warm)
Physical Description:	Violet-blue solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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