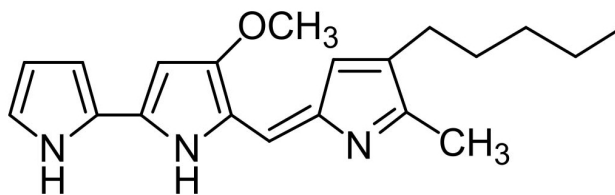


Prodigiosin

Code No.: BIA-P1194

Pack sizes.: 0.5mg, 2.5mg



Synonyms:

-

Specifications

CAS #	: 82-89-3
Molecular Formula	: C20H25N3O
Molecular Weight	: 323.4
Source	: -
Appearance	: Dark red solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Prodigiosin is an intensely red pyrrole pigment produced by several bacteria, most notably *Serratia marcescens*. Prodigiosin has a broad biological profile with activity against fungi, tumor cell lines and malaria. It was shown to be an immunosuppressant in 2007. Prodigiosin acts via caspase inhibition to induce apoptosis in human primary cancer cells. Prodigiosin also acts as an inducer of p21WAF1/CIP1 expression via transforming growth factor- β receptor pathway, and activates NAG-1 via glycogen synthase kinase-3 β .

References

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4. Prodigiosin induces the proapoptotic gene NAG-1 via glycogen synthase kinase-3 β activity in human breast cancer cells. Soto-Cerrato V. et al., Mol. Cancer Ther. 2007, 6, 362.
5. Proteomic analysis of prodigiosin-induced apoptosis in a breast cancer mitoxantrone-resistant (MCF-7 MR) cell line. Monge M. et al., Invest. New Drugs 2007, 25, 21.