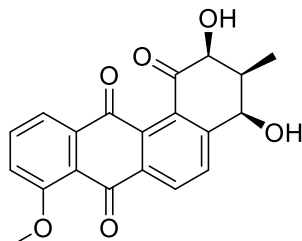


Rubiginone D2

Code No.: **BIA-R1906**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 274913-71-2
Molecular Formula	: C ₂₀ H ₁₆ O ₆
Molecular Weight	: 352.34
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow-green solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMSO or acetone; slightly soluble in methanol

Application Notes

Rubiginone D2 was isolated from a *Streptomyces* sp. by Zeeck and co-workers, University of Gottingen, Germany in 2000. Rubiginone D2 is an angucycline, an angular tetracyclic benzanthracene core containing a highly oxygenated A ring. Rubiginone D2 is a potent cytotoxic agent, demonstrating 50% inhibition of growth (GI₅₀) of stomach adenocarcinoma HM02, colon carcinoma Kato III, hepatocellular carcinoma HEPG2 and breast adenocarcinoma MCF7 cell lines at concentrations of 0.1, 0.7, <0.1 and 7.5 μM, respectively.

References

1. Angucyclines: Total syntheses, new structures, and biosynthetic studies of an emerging new class of antibiotics. Krohn K. & Rohr J. In Topics in current chemistry, Vol. 188. Biorganic chemistry. Ed., J. Rohr, pp. 127- 1 95, Springer-Verlag, Berlin-Heidelberg, 1997.
2. New biologically active rubiginones from *Streptomyces* sp. Puder C. et al. J Antibiot. 2000, 53, 329.