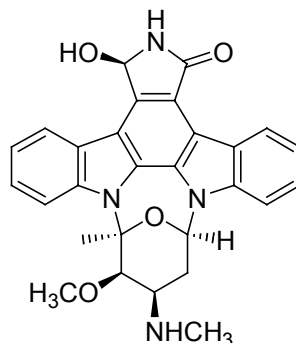


## Antibiotic UCN-02

Code: **BIA-U1097**

Pack sizes: **1 mg, 5 mg**



Synonyms : **UCN 02**

### Specifications

CAS # : **121569-61-7**  
Molecular Formula : **C<sub>28</sub>H<sub>26</sub>N<sub>4</sub>O<sub>4</sub>**  
Molecular Weight : **482.5**  
Source : ***Streptomyces* sp. MST-AS5345**  
Appearance : **Pale yellow solid**  
Purity : **> 98% by HPLC (< 2% UCN-01)**  
(Note, some interconversion of UCN-02 to UCN-01 occurs under acidic HPLC conditions Takahashi et al. 1988 J. Antibiot. 42, 571.)  
Long Term Storage : **-20 °C, protect from light**  
Solubility : **Soluble in ethyl acetate, ethanol, DMF or DMSO.**

### Application Notes

Antibiotic UCN-02 is a indolocarbazole isolated from a high staurosporine-producing *Streptomyces* culture. UCN-02 is isolated as a minor co-metabolite of high producing staurosporine strains of selected actinomycetes. Although less selective than its isomer UCN-01, UCN-02 exhibits comparable activity and probably acts by similar mechanisms.

### References

1. UCN-01-induced cell cycle arrest requires the transcriptional induction of p21<sup>waf1/cip1</sup> by activation of mitogen-activated protein/extracellular signal-regulated kinase/extracellular signal-regulated kinase pathway. Facchinetti M.M. et al. *Cancer Res.* **2004**, 64, 3629.
2. UCN-01 (7-hydroxystaurosporine) and other indolocarbazole compounds: a new generation of anti-cancer agents for the new century? Akinaga S. et al. *Anticancer Drug Des.* **2000**, 15, 43.
3. UCN-01 and UCN-02, new selective inhibitors of protein kinase C. II. Purification, physico-chemical properties, structural determination and biological activities. Takahashi I. et al. *J. Antibiot.* **1989**, 42, 571.