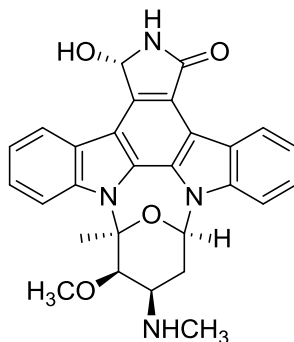


UCN-02

Code No.: **BIA-U1097**

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



Synonyms :

Specifications

CAS #	:	121569-61-7
Molecular Formula	:	C₂₈H₂₆N₄O₄
Molecular Weight	:	482.5
Source	:	<i>Streptomyces</i> sp.
Appearance	:	White Film
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

UCN-02 is an indolocarbazole isolated from a high staurosporine-producing *Streptomyces* culture as a minor co-metabolite. 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^{waf1/cip1} 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.