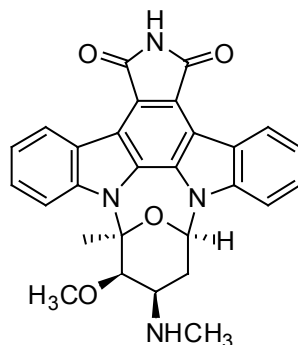


## 7-Oxostaurosporine

Code: **BIA-O1137**

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



Synonyms : **Antibiotic BMY 41950, Antibiotic RK 1409**

### Specifications

CAS # : **141196-69-2**  
Molecular Formula : **C<sub>28</sub>H<sub>24</sub>N<sub>4</sub>O<sub>4</sub>**  
Molecular Weight : **480.522**  
Source : ***Streptomyces* sp. MST-AS5345**  
Appearance : **Yellow solid**  
Purity : **> 98% by HPLC**  
Long Term Storage : **-20°C**  
Solubility : **DMSO, DMF, methanol and ethanol. Limited water solubility**

### Application Notes

7-Oxostaurosporine is the oxidised and highly fluorescent analogue of Antibiotics UCN-01 and UCN-02. Oxostaurosporine is a potent inhibitor of protein kinase C and formation of cellular blebs induced by phorbols. It inhibits the cell cycle at the G<sub>2</sub> stage with the accumulation of 4C DNA cells and possesses comparable activity against tumor cells lines to Antibiotic UCN-01. Despite its close relationship to Antibiotic UCN-01 and staurosporine, limited access to the metabolite has restricted a more complete investigation of its properties.

### References

1. A new inhibitor of protein kinase C, RK-1409 (7-oxostaurosporine). I Taxonomy and biological activity. Osada, H. et al., *J. Antibiot.* **1992**, 45, 189.
2. A new inhibitor of protein kinase C, RK-1409 (7-oxostaurosporine). II Fermentation, Isolation, Physico-chemical properties and structure. Koshino H. et al., *J. Antibiot.* **1992**, 45, 195.