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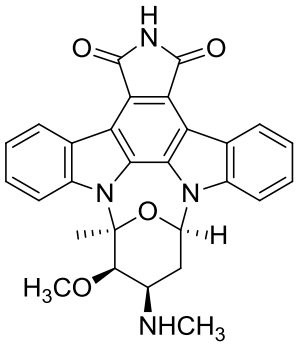
PRODUCT DATA SHEET

7-Oxostaurosporine

Code No.: **BIA-O1137**

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



Synonyms : 7-Oxostaurosporine, BMY 41950, RK 1409

Specifications

CAS #	:	**141196-69-2**
Molecular Formula	:	**$C_{28}H_{24}N_4O_4$**
Molecular Weight	:	**480.5**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow solid**
Purity	:	**>98% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.**

Application Notes

7-Oxostaurosporine is the oxidised and highly fluorescent analogue of UCN-01 and UCN-02. 7-Oxostaurosporine is a potent inhibitor of protein kinase C and formation of cellular blebs induced by phorbols. It inhibits the cell cycle at the G2 stage with the accumulation of 4C DNA cells and possesses comparable activity against tumor cells lines to UCN-01. Despite its close relationship to 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.

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