7-Oxostaurosporine

Synonyms: 7-Oxostaurosporine, BMY 41950, RK 1409

Specifications

- **CAS #**: 141196-69-2
- **Molecular Formula**: C_{28}H_{24}N_{4}O_{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 tumour cell 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