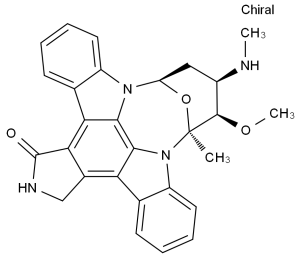


|                          |                                                                                                                                                                                                                                                       |                                                                                    |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : Staurosporine                                                                                                                                                                                                                                       |  |
| <b>Synonyms</b>          | : Stsp                                                                                                                                                                                                                                                |                                                                                    |
| <b>Cat No.</b>           | : M15382                                                                                                                                                                                                                                              |                                                                                    |
| <b>CAS Number</b>        | : 62996-74-1                                                                                                                                                                                                                                          |                                                                                    |
| <b>Molecular Formula</b> | : C <sub>28</sub> H <sub>26</sub> N <sub>4</sub> O <sub>3</sub>                                                                                                                                                                                       |                                                                                    |
| <b>Formula Weight</b>    | : 466.53                                                                                                                                                                                                                                              |                                                                                    |
| <b>Chemical Name</b>     | (5S,6R,7R,9R)-6-methoxy-5-methyl-7-(methylamino)-6,7,8,9,15,16-hexahydro-5H,14H-17-oxa-4b,9a,15-triaza-5,9-methanodibenzo[b,h]cyclonona[jk]cyclopenta[e]-as-indacen-14-one                                                                            |                                                                                    |
| <b>Description</b>       | Staurosporine is a potent PKC inhibitor for PKC $\alpha$ , PKC $\gamma$ and PKC $\eta$ with IC <sub>50</sub> of 2 nM, 5 nM and 4 nM, less potent to PKC $\delta$ (20 nM), PKC $\epsilon$ (73 nM) and little active to PKC $\zeta$ (1086 nM). Phase 3. |                                                                                    |
| <b>Pathway</b>           | : Angiogenesis                                                                                                                                                                                                                                        |                                                                                    |
| <b>Target</b>            | : PKC                                                                                                                                                                                                                                                 |                                                                                    |
| <b>Receptor</b>          | : PKC; PKC $\alpha$ ; PKC $\gamma$ ; PKC $\eta$ ; c-Fgr                                                                                                                                                                                               |                                                                                    |
| <b>Solubility</b>        | : DMSO:4 mg/mL (8.57 mM); Ethanol:<1 mg/mL (<1 mM); Water:<1 mg/mL (<1 mM)                                                                                                                                                                            |                                                                                    |
| <b>SMILES</b>            | <chem>CO[C@@H]1[C@@H](C[C@@H]2N3C4=C(N(C5=CC=CC=C5)[C@@]1(C)O2)C6=C7CNC(C7=C4C8=CC=CC=C83)=O)NC</chem>                                                                                                                                                |                                                                                    |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                             |                                                                                    |
| <b>Stability</b>         | : $\geq 2$ years                                                                                                                                                                                                                                      |                                                                                    |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                     |                                                                                    |

I. Tamaoki T, et al. Biochem Biophys Res Commun, 1986, 135(2), 397-402.