

Product Name:	Stauprimide
Product Number:	S101
CAS Number:	154589-96-5
Molecular Formula:	C ₃₅ H ₂₈ N ₄ O ₅
Molecular Weight:	584.6
Appearance:	Yellow orange solid
Storage Conditions:	-20°C
Description:	<p>Stauprimide is a semi-synthetic analogue of the staurosporine family of indolocarbazoles. Stauprimide was first published in 1994 as part of an extensive structure-activity investigation to improve the selective inhibition of protein kinase C as potential antitumor agents. Stauprimide increases the efficiency of the directed differentiation of mouse and human embryonic stem cells in synergy with defined extracellular signalling cues.</p>
Mechanism of Action:	<p>Stauprimide is soluble in ethanol, methanol, DMF and DMSO.</p> <p>Stauprimide interacts with NME2 (PUF) transcription factor to down-regulate c-Myc expression, leading to differentiation of stem cells.</p>
References:	<p>Inhibitory activity and selectivity of staurosporine derivatives towards protein kinase C. Caravatti G. et al. , Bioorg. Med. Chem. Letters 1994, 4, 399.</p> <p>A small molecule primes embryonic stem cells for differentiation. Zhu S. et al. , Cell Stem Cell 2009, 4, 416</p>