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Zuschläge

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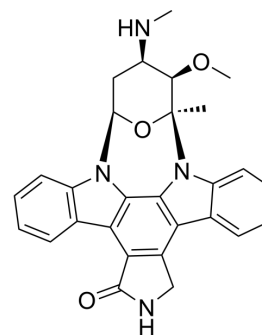
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Staurosporine (GMP)

Cat. No.:	HY-15141G
CAS No.:	62996-74-1
Molecular Formula:	C ₂₈ H ₂₆ N ₄ O ₃
Molecular Weight:	466.53
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Staurosporine (AM-2282) (GMP) is Staurosporine (HY-15141) produced by using GMP guidelines. GMP small molecules works appropriately as an auxiliary reagent for cell therapy manufacture. Staurosporine is a potent, ATP-competitive and non-selective inhibitor of protein kinases ^{[1][2][3][4][5]} .
In Vitro	<p>Staurosporine (GMP) (316 nM; 24 h) induces the production of robust neurite in RGC-5 cells^[1].</p> <p>Staurosporine (GMP) (25 and 100 nM; 12 h) induces differentiation of SH-SY5Y cells with the increasing of neurite processes combined with a prominent branching and the subsequent reduction in cell body size^[2].</p> <p>Staurosporine (GMP) (20 nM) induces cell differentiation of human neuroblastoma cell line^[3].</p> <p>Staurosporine (GMP) (5 nM) enhances HL-60-cell differentiation induced by 1 alpha,25 dihydroxyvitamin D3, dbc AMP, all-trans-beta-retinoic acid (RA), actinomycin D (Act D) and other compounds^[4].</p> <p>Staurosporine (GMP) (1 μM; 15 d) induces differentiation of human neuroblastoma cells^[5].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Ganapathy PS, et al. Sensitivity of staurosporine-induced differentiated RGC-5 cells to homocysteine. *Curr Eye Res.* 2010 Jan;35(1):80-90.
- [2]. Pregi N, et al. Effect of erythropoietin on staurosporine-induced apoptosis and differentiation of SH-SY5Y neuroblastoma cells. *Biochim Biophys Acta.* 2006 Feb;1763(2):238-46.
- [3]. Hajimu MORIOKA, et al. Staurosporine-induced Differentiation in a Human Neuroblastoma Cell Line, NB-1. *Agricultural and Biological Chemistry.* 1985; 1959-1963.
- [4]. Okazaki T, et al. Staurosporine, a novel protein kinase inhibitor, enhances HL-60-cell differentiation induced by various compounds. *Exp Hematol.* 1988 Jan;16(1):42-8.
- [5]. Yuste VJ, et al. The prevention of the staurosporine-induced apoptosis by Bcl-X(L), but not by Bcl-2 or caspase inhibitors, allows the extensive differentiation of human neuroblastoma cells. *J Neurochem.* 2002 Jan;80(1):126-39.

Caution: Product has not been fully validated for medical applications. For research use only.

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