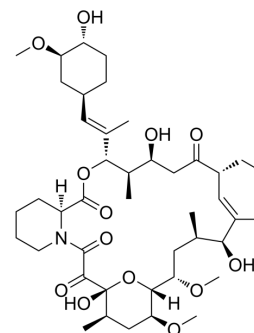


L685818

Cat. No.:	HY-125693
CAS No.:	143839-74-1
Molecular Formula:	C ₄₃ H ₆₉ NO ₁₃
Molecular Weight:	808.01
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L685818 is a specific immunophilin ligand. L685818 was neuroregenerative and non-neuroprotective in primary brain cultures. L685818 protects dopaminergic neurons from toxic inhibition of MPP+ and 6-OHDA, reduces tyrosine hydroxylase (TH) loss, and promotes neuronal process regeneration. L685818 is also an antifungal reagent for <i>Cryptococcus neoformans</i> [1][2].
In Vitro	L685818 (100 nM; 2 d for MPP+ group and 24 h for 6-OHDA group) showed neuroprotective effects, and the number of TH+ cells was increased under the inhibition of MPP+ and 6-OHDA ^[1] . L685818 (10-100 nM; 24 h) protects against tyrosine hydroxylase (TH) loss caused by MPP+ and 6-OHDA (HY-B1081) treatments ^[1] . L685818 (0.01-1µM; 2 d) significantly promotes the production of dopaminergic neurons by increasing the number of TH immunoreactive neuritis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Guo X, et al. Neuroimmunophilin ligands exert neuroregeneration and neuroprotection in midbrain dopaminergic neurons. *Eur J Neurosci*. 2001 May;13(9):1683-93.
- [2]. Odom A, et al. The immunosuppressant FK506 and its nonimmunosuppressive analog L-685,818 are toxic to *Cryptococcus neoformans* by inhibition of a common target protein. *Antimicrob Agents Chemother*. 1997 Jan;41(1):156-61.

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

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