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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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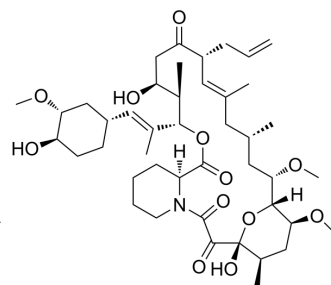
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Tacrolimus (Standard)

Cat. No.:	HY-13756R
CAS No.:	104987-11-3
Molecular Formula:	C ₄₄ H ₆₉ NO ₁₂
Molecular Weight:	804.02
Target:	Phosphatase; FKBP; Autophagy; Bacterial; Antibiotic
Pathway:	Metabolic Enzyme/Protease; Apoptosis; Autophagy; Immunology/Inflammation; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tacrolimus (Standard) is the analytical standard of Tacrolimus. This product is intended for research and analytical applications. Tacrolimus (FK506), a macrocyclic lactone, binds to FK506 binding protein (FKBP) to form a complex. Tacrolimus inhibits calcineurin phosphatase, which inhibits T-lymphocyte signal transduction and IL-2 transcription. Immunosuppressive properties ^[1] .
IC₅₀ & Target	PP2B (calcineurin phosphatase) ^[1] Autophagy inducer ^[2]

REFERENCES

- [1]. Thomson AW, et al. Mode of action of Tacrolimus (FK506): molecular and cellular mechanisms. *Ther Drug Monit.* 1995 Dec;17(6):584-91.
- [2]. Vogel KR, et al. mTOR inhibitors rescue premature lethality and attenuate dysregulation of GABAergic/glutamatergic transcription in murine succinate semialdehyde dehydrogenase deficiency (SSADHD), a disorder of GABA metabolism. *J Inher Metab Dis.* 2016 Nov;39(6):877-886.
- [3]. Zhu H, et al. Tacrolimus promotes hepatocellular carcinoma and enhances CXCR4/SDF 1 α expression in vivo. *Mol Med Rep.* 2014 Aug;10(2):585-92.
- [4]. Okada Y, et al. Tacrolimus ameliorates dextran sulfate sodium-induced colitis in mice: implication of interleukin-1 β suppression. *Biol Pharm Bull.* 2011;34(12):1823-7.
- [5]. Yuwei He, et al. Drug targeting through platelet membrane-coated nanoparticles for the treatment of rheumatoid arthritis. *Nano Res.* 30 June 2018.

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

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