

DATA SHEET

Product Name: FK-506

Catalog #: N-3024

Alt: CAS# 104987-11-3; Tacrolimus; produced by fermentation

Source: Synthetic

Molecular Mass: 804.0 C₄₄H₆₉NO₁₂

Analysis: >98% (TLC); NMR (Conforms)

Supplied As: White powder

Resuspension: May be dissolved in DMSO (50 mg/ml); or ethanol (50 mg/ml)

Storage: Store desiccated as supplied at 4°C for up to 2 years. Store solutions at -20°C for up to 2 months.

Description: FK-506 induces immunosuppression by inhibiting T cell proliferation. Inhibits FKBP12 and calcineurin (IC₅₀ ca. 1 nM)¹. Reduces neuroinflammation and neuro-degeneration in an α -synuclein-based rat model of Parkinson's disease². Increases the rate of axonal regeneration following crush injury in a rat model³. Cell permeable.

References:

1. Yu, D.Y., et al., (2006) IUBMB Life, 58: 429
2. Van Der Perren, A., et al., (2015) Neurobiol. Aging, 36: 155
3. Sun, H.H., et al., (2012) Neuroscience, 223: 114

For research use only. Not for use in humans.