

**DATA SHEET**

**Product Name:** FK-506

**Catalog #:** CV-1003

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

**Molecular Mass:** 804.0

**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 (IC<sub>50</sub> ca. 1 nM)<sup>1</sup>. Reduces neuroinflammation and neurodegeneration in an  $\alpha$ -synuclein-based rat model of Parkinson's disease<sup>2</sup>. Increases the rate of axonal regeneration following crush injury in a rat model<sup>3</sup>. 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.**