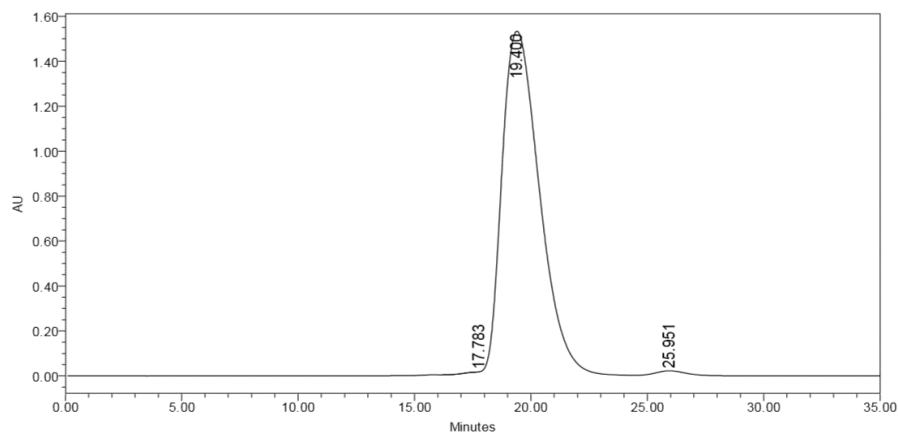


Rapamycin

Cat. # F6130, F6131

Also Known as: AY-22989, LCP-Siro, RAPA, Rapamune, Sirolimus, SILA 9268A
Formula: $C_{51}H_{79}NO_{13}$
MW: 914.17 Da
CAS No.: 53123-88-9
Source: Synthetic
Form: Lyophilized powder
Solubility: Soluble in DMSO
Concentration: N/A
Quality Assurance: >99% by HPLC and NMR



Purity check of Rapamycin by HPLC

Description: Rapamycin is an antifungal and immunosuppressant. Rapamycin was originally used as an antifungal antibiotic. It is now known as a specific inhibitor of mTOR. Rapamycin binds to FK-binding protein 12 (FKBP12) and forms the rapamycin-FKBP12 complex, which regulates an enzyme that plays an important role in the progression of the cell cycle. Rapamycin and other inhibitors of mTORC1 signaling show potential in treating cancer, adipogenesis, diabetes, tuberous sclerosis, and cardiovascular disease.

Storage: Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and light

Literature:

1. Corradetti MN, *et al* . (2006) *Oncogene*. 25(48):6347-60.
2. Foster KG, *et al* . (2010) *J Biol Chem*. 285(19):14071-7.
3. Malagelada C, *et al* . (2010) *J Neurosci*. 30(3):1166-75.

