

CERTIFICATE OF ANALYSIS

PRODUCT:	Temsirolimus [42-[3-Hydroxy-2-(hydroxymethyl)-2-methylpropanoate]-rapamycin], C ₅₆ H ₈₇ NO ₁₆ , M.W. 1030.3, CAS# [162635-04-3]
PRODUCT NUMBER:	T-2453
LOT NUMBER:	G1271
APPEARANCE:	White to off-white crystalline solid
PURITY:	≥ 98%
STABILITY:	≥ 2 years at -20°C
UV/Vis.:	λ _{max} : 268, 277, 289 nm
PRODUCT DESCRIPTION:	mTOR inhibitor with anti-cancer activity. Temsirolimus is a semisynthetic macrocyclic lactone prepared from rapamycin by selective acylation of the 42-hydroxy group with a protected bis(dihydromethyl)propionic acid, followed by deprotection. It has anti-angiogenic effects which may contribute to the antitumor activity of temsirolimus observed in breast cancer. Temsirolimus shows synergistic in vivo anti-myeloma effects in combination with dexamethasone in a xenograft model. Temsirolimus is extensively cited in the literature with over 700 citations.
STORAGE & HANDLING:	Store at -20°C. <u>WARNING: HARMFUL!</u> CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: LA