

PRODUCT DATA SHEET

Code No.: BIA-T1386

Pack sizes.: 1mg, 5mg

Temsirolimus

Synonyms:

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Specifications

CAS # : 162635-04-3
Molecular Formula : C56H87NO16

Molecular Weight : 1030.3

Source :-

Appearance : White solid
Purity : >95% by HPLC

Long Term Storage : -20°C

Solubility : Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

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. Like all tacrolimus analogues, temsirolimus binds to receptor protein, FKBP12. The complex then binds to mTOR preventing it from

interacting with target proteins. Temsirolimus is extensively cited in the literature with over 700 citations.

References

- 1. Rapamycin hydroxyesters. Skotnicki J. US Patent 5,362,718, 1994.
- 2. CCI-779 inhibits rhabdomyosarcoma xenograft growth by an antiangiogenic mechanism linked to the targeting of mTOR/Hif- 1α /VEGF signaling. Wan X. et al., Neoplasia 2006, 8, 394.