
Product Data Sheet

Product Name: AD 01
Cat. No.: GC50581

Chemical Properties

Cas. No. 959961-23-0

Formula $C_{115}H_{187}N_{33}O_{42}$ M.Wt 2703.94

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

FKBPL (FK506-binding protein like)-based peptide. Binds to and upregulates expression of CD44. Inhibits breast cancer stem cell (BCSC) growth. Decreases pluripotency markers and promotes differentiation of BCSCs. Also inhibits endothelial cell migration as well as tubule and microvessel formation in vitro and in vivo. Blocks tumor growth in xenograft models.

Yakkundi et al (2013) The anti-migratory effects of FKBPL and its peptide derivative, AD-01: regulation of CD44 and the cytoskeletal pathway. PLoS One. 8 e55075

PMID:23457460 |McClements et al (2013) Targeting treatment-resistant breast cancer stem cells with FKBPL and its peptide derivative, AD-01, via the CD44 pathway.

Clin.Cancer Res. 19 3881 PMID:23741069 |Valentine et al (2011) FKBPL and peptide derivatives: novel biological agents that inhibit angiogenesis by a CD44-dependent mechanism. Clin.Cancer Res 17 1044 PMID:21364036

Caution: Product has not been fully validated for medical applications. For research use only.

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