
Product Data Sheet

Product Name: Conglobatin

Cat. No.: GC18832

Chemical Properties

Cas. No. 72263-05-9

Chemical Name (3E,5R,11E)-3,5,7S,11,13R,15S-hexamethyl-8S,16S-bis(5-oxazolylmethyl)-1,9-dioxacyclohexadeca-3,11-diene-2,10-dione

SMILES C[C@H]([C@H](CC1=CN=CO1)OC(/C(C)=C/[C@H](C)C[C@H](C)[C@H](CC2=CN=CO2)O3)=O)C[C@@H](C)/C=C(C)\C3=O

Formula $C_{28}H_{38}N_2O_6$ M.Wt 498.6

Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
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**

Conglobatin is a dimeric macrolide dilactone originally isolated from *S. conglobatus*. It disrupts binding of heat shock protein 90 (Hsp90) to the co-chaperone Cdc37 complex and induces downregulation of client protein expression in SK-BR-3 breast cancer cells. It also inhibits cell proliferation in HER2+ breast cancer cell lines (IC50s = 12.9-61.5 uM, respectively) and decreases the number of invasive cells in vitro. When combined with lapatinib, tumor growth of SK-BR-3 mouse xenografts was reduced to a greater degree than with conglobatin alone. Conglobatin has various anticancer effects in esophageal squamous cell carcinoma (ESCC) models as well, including an inhibition of cell proliferation in KYSE510 cells (IC50 = 9.31 uM). It also inhibits β 1 integrin activation leading to a loss of cellular adhesion.

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

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