

Product Data Sheet

Product Name: PKF118-310

Cat. No.: GC18291

Chemical Properties

Cas. No. 84-82-2

Chemical Name 1,6-dimethyl-pyrimido[5,4-e]-1,2,4-triazine-5,7(1H,6H)-dione

SMILES O=C1N(C)C(C2=NC=NN(C)C2=N1)=O

Formula $C_7H_7N_5O_2$

M.Wt 193.2

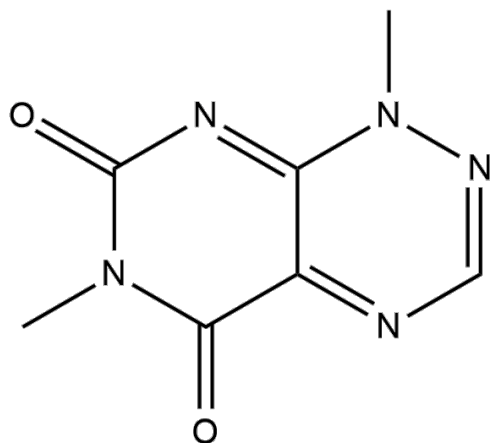
Solubility Water: 10 mg/ml

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

PKF118-310 is an inhibitor of the interaction between T cell factor 4 (Tcf4) and β -catenin that is produced by Actinomycete strains. It disrupts binding of β -catenin to a GST-Tcf4 fusion protein in HCT116 cell lysates ($IC_{50} = 0.8 \mu M$). PKF118-310 blocks appearance of the Tcf4 and β -catenin complex bound to DNA in an EMSA assay. It reduces levels of the β -catenin regulated proteins c-Myc and cyclin D1 but has no effect on cyclin E in HCT116 cells. PKF118-310 (0.5 pmol) abrogates

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

β -catenin, but not siamois, ventral body axis duplication induced by mRNA in *Xenopus* embryos. It reduces growth of HCT116, HT-29, PC3, and DU145 cancer cells in vitro (IC₅₀s = 170-300 nM). PKF118-310 (1 mg/kg twice per week) reduces tumor growth and expression of c-Myc, cyclin D1, and Survivin in a HepG2 mouse xenograft model.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA