

Product Data Sheet

Product Name: Cemtirestat

Cat. No.: GC79560

Chemical Properties

Cas. No. 309283-89-4

Formula $C_{11}H_8N_4O_2S$

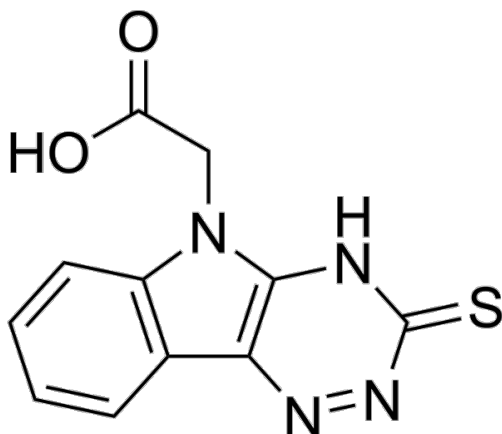
M.Wt 260.27

Solubility Storage Store at 4°C, stored under nitrogen

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

Cemtirestat (CMTI) is a carboxymethylated thiazotriazinoindole inhibitor of aldose reductase (ALR2). Cemtirestat potently inhibits rat ocular lens ALR2 with an IC_{50} of 0.116 μ M, and exhibits a 302-fold selectivity for rat kidney ALR1. Cemtirestat is applicable to the research of advanced diabetic complications [1].

References:

[1]. Hlaváč M, et al. Novel substituted N-benzyl(oxotriazinoindole) inhibitors of aldose reductase exploiting ALR2 unoccupied interactive pocket. Bioorg Med Chem. 2021;29:115885.

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

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