

Product Data Sheet

Product Name: Sorbitol dehydrogenase-IN-1

Cat. No.: GC72894

Chemical Properties

Cas. No. 300551-49-9

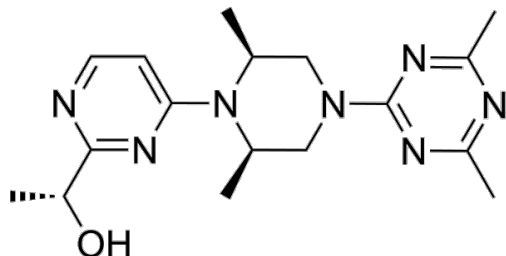
Formula $C_{17}H_{25}N_7O$ M.Wt 343.43

Solubility DMSO : 40 mg/mL (116.47 mM; ultrasonic and warming and heat to 60°C) Storage -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

Sorbitol dehydrogenase-IN-1 is a potent and orally active sorbitol dehydrogenase inhibitor with IC₅₀ s of 4, 5 nM for rat and human, respectively.

Sorbitol dehydrogenase-IN-1 (compound 16) (50 µg/kg; p.o.) shows sustained inhibition of sciatic nerve fructose in chronically diabetic rats[1].

References:

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

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[1]. Mylari BL, et al. A sorbitol dedrogenase inhibitor of exceptional in vivo potency with a long duration of action: 1-(R)-[4-[4-(4,6-dimetl[1,3,5]triazin-2-yl)- 2R,6S-dimetl piperazin-1-yl]pyrimidin-2-yl]ethanol. J Med Chem. 2002 Sep 26;45(20):4398-401.

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