

Product Data Sheet

Product Name: DHODH-IN-12

Cat. No.: GC70741

Chemical Properties

Cas. No. 1263303-93-0

Formula $C_{10}H_9N_3O_2$

M.Wt 203.2

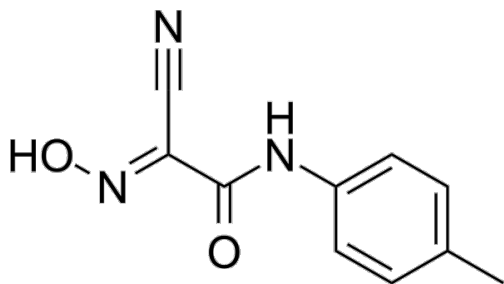
Solubility

Storage

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

DHODH-IN-12 (Compound 12b) is a Leflunomide derivative and a weak dihydroorotate dehydrogenase (DHODH) inhibitor with a pKa of 5.07.

Designed a compound structurally related to Leflunomide, containing the furazan ring (Compound 12a), is designed. Compound 12a undergoes ring 4 scission under physiological pH conditions to afford the corresponding cyano-oximes DHODH-IN-12 (Compound 12b). DHODH-IN-12 has been assayed as a DHODH inhibitor; its low potency is probably due to the unfavourable stereochemistry of the oxime substructure^[1].

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

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References:

[1]. Giorgis M, et al. 1,2,5-Oxadiazole analogues of leflunomide and related compounds. Eur J Med Chem. 2011 Jan;46(1):383-92.

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