

Product Data Sheet

Product Name: Sulfisoxazole

Cat. No.: GC12231

Chemical Properties

Cas. No. 127-69-5

Chemical Name 4-amino-N-(3,4-dimethyl-1,2-oxazol-5-yl)benzenesulfonamide

SMILES CC1=C(ON=C1C)NS(=O)(=O)C2=CC=C(C=C2)N

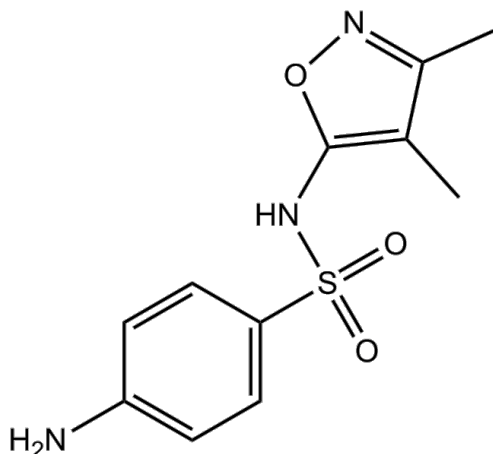
Formula $C_{11}H_{13}N_3O_3S$ M.Wt 267.3

Solubility $\geq 10.65\text{mg/mL}$ in DMSO 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

Sulfisoxazole, an endothelin receptor antagonist, is a sulfonamide antibacterial with an oxazole substituent. Target: Antibacterial; Endothelin Receptor. The sulfanilamide antibacterial agent sulfisoxazole was found to be a good endothelin receptor antagonist (IC_{50} 's of 0.60 microM and 22

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

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microM for the ETA and ETB receptors, respectively) [1]. Sulfisoxazole is used to treat or prevent infections in many different parts of the body. It belongs to the group of medicines known as sulfonamide antibiotics. It works by preventing the growth of bacteria [2].

References:

- [1]. Chan, M.F., et al., Identification of a new class of ETA selective endothelin antagonists by pharmacophore directed screening. *Biochem Biophys Res Commun*, 1994. 201(1): p. 228-34.
[2]. <http://www.mayoclinic.org/drugs-supplements/sulfisoxazole-oral-route/description/drg-20072998>

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