

Product Data Sheet

Product Name: Zoxazolamine

Cat. No.: GC13528

Chemical Properties

Cas. No. 61-80-3

Chemical Name 5-chloro-1,3-benzoxazol-2-amine

SMILES C1=CC2=C(C=C1Cl)N=C(O2)N

Formula C7H5ClN2O

M.Wt 168.58

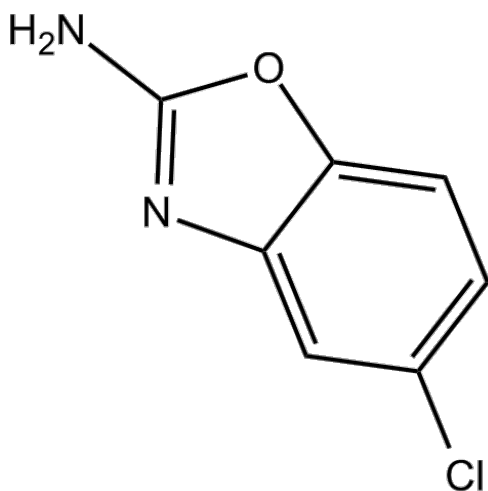
Solubility $\geq 7.55\text{mg/mL}$ in DMSO

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



Protocol

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

Animal experiment: Inbred male Lewis rats are used in this study. The animals are allowed 7 to 12 days to adjust to the local animal facilities and to recover possible stress incurred during transport. To compare drug concentrations in serum at the onset and offset of loss of the righting reflex, Zoxazolamine is infused into the femoral vein at a rate of 0.51 mg/min for 5 min beyond the onset of loss of the righting reflex. The infusion solution consists of 10 mg Zoxazolamine in 1 mL normal saline. Then, blood samples from the jugular vein are obtained from four rats at the onset and offset of loss of the righting reflex, using a procedure that yields mainstream blood[1].

References:

[1]. Yasuhara M, et al. Pharmacodynamics of zoxazolamine and chlorzoxazone in rats. Pharm Res. 1988 Jul;5(7):401-7.

Background

Zoxazolamine is widely used for a pharmacologic test that serves as a convenient indicator of changes in cytochrome P-450 activity in rodents.

Zoxazolamine is widely used for a pharmacologic test that serves as a convenient indicator of changes in cytochrome P-450 activity in rodents. The time-averaged serum clearance determined from tested concentrations data is 7.22 ± 1.01 mL/min/kg for Zoxazolamine. Infusion of Zoxazolamine to righting reflex (LRR) at three different rates shows increasing Zoxazolamine concentration in serum and brain at the onset of the effect with increasing infusion rates. When the Zoxazolamine infusion is continued for 5 min beyond the onset of LRR, the concentrations of Zoxazolamine in the cerebrospinal fluid (CSF) at the offset of LRR are essentially identical to the onset concentrations[1].

References:

[1]. Yasuhara M, et al. Pharmacodynamics of zoxazolamine and chlorzoxazone in rats. Pharm Res. 1988 Jul;5(7):401-7.

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