

## 4-Amino-6-chloro-1,3-benzenedisulfonamide

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	4-Amino-6-chloro-1,3-benzenedisulfonamide is a carbonic anhydrase inhibitor. <sup>1</sup> Formulations containing this compound are diuretics. <sup>2</sup> 4-Amino-6-chloro-1,3-benzenedisulfonamide is detected as a hydrolysis product of chlorothiazide in the urine. <sup>2</sup> Diuretics, including chlorothiazide, have been abused as performance-enhancing drugs and masking agents in sports doping. <sup>3</sup>
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Slightly soluble DMSO:PBS(pH 7.2) (1:4): 0.2 mg/mL,Sonication is recommended. DMSO: 30 mg/mL,Sonication is recommended. DMF: 30 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Nishimori, I., Vullo, D., Minakuchi, T., et al. Carbonic anhydrase inhibitors: Cloning and sulfonamide inhibition studies of a carboxyterminal truncated  $\alpha$ -carbonic anhydrase from Helicobacter pylori. Bioorg. Med. Chem. Lett. 16 (8), 2182-2188 (2006).

Deventer, K., Pozo, O.J., Van Eenoo, P., et al. Detection of urinary markers for thiazide diuretics after oral administration of hydrochlorothiazide and altizide-relevance to doping control analysis. J. Chromatogr. A 1216 (12), 2466-2473 (2009).

Cadwallader, A.B., de la Torre, X., Tieri, A., et al. The abuse of diuretics as performance-enhancing drugs and masking agents in sport doping: Pharmacology, toxicology and analysis. Br. J. Pharmacol. 161(1), 1-16 (2010).

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