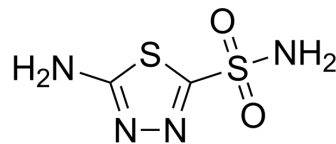


CL 5343

Cat. No.:	HY-W074975
CAS No.:	14949-00-9
Molecular Formula:	C ₂ H ₄ N ₄ O ₂ S ₂
Molecular Weight:	180.21
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

CL 5343 (5-Amino-1,3,4-thiadiazole-2-sulfonamide) is an inhibitor of human carbonic anhydrase B (HCA-B). CL 5343 can serve as a CA9 ligand to achieve the targeted delivery of maytansinoid to the cell membrane of SKRC52 renal cancer cells^[1] [2].

REFERENCES

[1]. Pesando JM, et al. Proton magnetic resonance studies of carbonic anhydrase. III. Binding of sulfonamides. *Biochemistry*. 1975;14(4):689-693.

[2]. Pérez-Herrero E, et al. The reversed intra-and extracellular pH in tumors as a unified strategy to chemotherapeutic delivery using targeted nanocarriers[J]. *Acta Pharmaceutica Sinica B*, 2021, 11(8): 2243-2264.

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

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