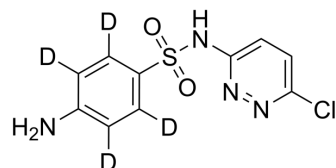


## Sulfachloropyridazine-d<sub>4</sub>

<b>Cat. No.:</b>	HY-136382S		
<b>CAS No.:</b>	1795037-54-5		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>5</sub> D <sub>4</sub> ClN <sub>4</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	288.75		
<b>Target:</b>	Antibiotic; Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sulfachloropyridazine-d <sub>4</sub> is the deuterium labeled Sulfachloropyridazine. Sulfachloropyridazine is a broad spectrum sulfonamide used against both Gram-positive and Gram-negative aerobic bacteria[1].
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Dirany A, et al. Electrochemical treatment of the antibiotic sulfachloropyridazine: kinetics, reaction pathways, and toxicity evolution. *Environ Sci Technol.* 2012 Apr 3;46(7):4074-82
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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