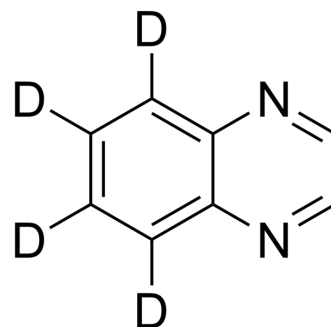


## Quinoxaline-d<sub>4</sub>

Cat. No.:	HY-W018677S
CAS No.:	64252-08-0
Molecular Formula:	C <sub>8</sub> H <sub>2</sub> D <sub>4</sub> N <sub>2</sub>
Molecular Weight:	134.17
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Quinoxaline-d <sub>4</sub> is the deuterium labeled Quinoxaline[1]. Quinoxaline is a chemical compound that acts as an intermediate for anti-tuberculosis agent Pyrazinamide. Quinoxaline presents a structure that is similar to quinolone antibiotics[2].
IC <sub>50</sub> & Target	Quinolone
In Vitro	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Mónica Vieira, et al. Antimicrobial activity of quinoxaline 1,4-dioxide with 2- and 3-substituted derivatives. *Microbiol Res*. 2014 Apr;169(4):287-93.

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

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