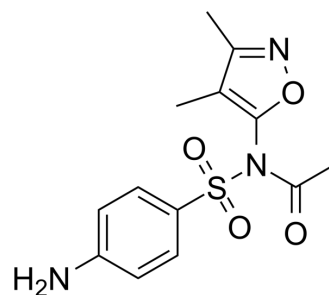


## Sulfisoxazole acetyl

Cat. No.:	HY-107923
CAS No.:	80-74-0
Molecular Formula:	C <sub>13</sub> H <sub>15</sub> N <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	309.34
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sulfisoxazole acetyl (N1-Acetylsulfisoxazole), a Sulfisoxazole derivative, is an orally active dihydropteroate synthase inhibitor. Sulfisoxazole acetyl has an antibacterial action <sup>[1]</sup> .
<b>In Vitro</b>	As with other sulfonamides, the antibacterial action of Sulfisoxazole acetyl (N1-Acetylsulfisoxazole) is attributable to inhibiting dihydropteroate synthase, a key enzyme in folate synthesis in bacteria. Sulfisoxazole acetyl is known to be transformed primarily to sulfisoxazole, partly to N4-acetyl sulfisoxazole (N4AS), and likely also to diacetyl sulfisoxazole (DAS) and other compounds <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Eunyoung Kim, et al. Simultaneous determination of N(1)-acetyl sulfisoxazole and its metabolites, and relative bioavailability compare to sulfisoxazole in rats. J Pharm Biomed Anal. 2016 Sep 10;129:117-120.

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

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