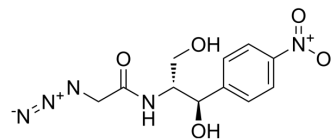


## Azidamfenicol

Cat. No.:	HY-105674		
CAS No.:	13838-08-9		
Molecular Formula:	C <sub>11</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub>		
Molecular Weight:	295.25		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

Azidamfenicol is a broad-spectrum chloramphenicol-like antibiotic. Azidamfenicol inhibits ribosomal peptidyltransferase ( $K_i = 22 \mu\text{M}$ )<sup>[1]</sup>. Azidamfenicol is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

### REFERENCES

[1]. Bhuta P, et al. Analogues of chloramphenicol: circular dichroism spectra, inhibition of ribosomal peptidyltransferase, and possible mechanism of action. J Med Chem. 1980 Dec;23(12):1299-305.

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

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