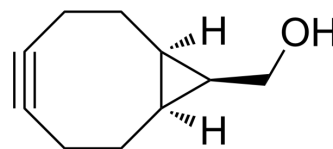


## BCN-OH

Cat. No.:	HY-W111141
CAS No.:	1263166-90-0
Molecular Formula:	C <sub>10</sub> H <sub>14</sub> O
Molecular Weight:	150.22
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	<div> Powder -20°C 3 years </div> <div> In solvent -80°C 6 months </div> <div> -20°C 1 month </div>



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 130 mg/mL (865.40 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		6.6569 mL	33.2845 mL	66.5690 mL
	5 mM		1.3314 mL	6.6569 mL	13.3138 mL
	10 mM		0.6657 mL	3.3285 mL	6.6569 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

BCN-OH (endo-9-Hydroxymethylbicyclo[6.1.0]non-4-yne) is a mitochondrial probe based on the lyophilic bidentate bicyclic ligand BCN and is a control reagent for BCN-TPP. The TPP group is a reactive sulfenic acid probe that targets mitochondria. BCN-TPP is known to affect mitochondrial energy, causing a sharp decrease in basal respiration, causing it to exhibit faster reaction kinetics with sulfonated proteins. BCN-OH does not contain hydrophobic triphenylphosphonium (TPP) ions. Using BCN-OH as a control allows the TPP group to be safely introduced when designing sulfenic acid traps<sup>[1]</sup>.

## REFERENCES

[1]. Li Z, et al. Triphenylphosphonium-Derived Protein Sulfenic Acid Trapping Agents: Synthesis, Reactivity, and Effect on Mitochondrial Function. Chem Res Toxicol. 2019 Mar 18;32(3):526-534.

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

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