BCA

Cat. No.: HY-15908

CAS No.: 979-88-4

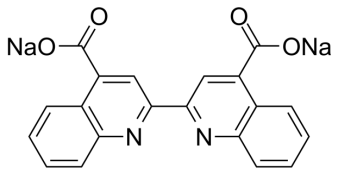
Molecular Formula: $C_{20}H_{10}N_2Na_2O_4$

Molecular Weight: 388.28

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (257.55 mM; Need ultrasonic)
DMSO : 2 mg/mL (5.15 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5755 mL	12.8773 mL	25.7546 mL
	5 mM	0.5151 mL	2.5755 mL	5.1509 mL
	10 mM	0.2575 mL	1.2877 mL	2.5755 mL

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

In Vivo

1. Add each solvent one by one: PBS
Solubility: 25 mg/mL (64.39 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

BCA (Disodium bicinchoninate) is the disodium salt of 2,2'-Biquinoline-4,4'-dicarboxylic acid, which can be used for the analysis and determination of copper and protein[1][2][3].

CUSTOMER VALIDATION

- Adv Funct Mater. 2024 Mar 14.
- Cardiovasc Diabetol. 2019 Feb 2;18(1):15.
- J Cancer. 2021 Feb 22;12(8):2243-2257.
- J Oncol. 2022 Aug 11;2022:5824617.

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REFERENCES

[1]. Hu X, et al. Tripeptide GGH as the inhibitor of copper-amyloid-β-mediated redox reaction and toxicity [J]. ACS Chemical Neuroscience, 2016, 7(9): 1255-1263.

[2]. Cortés-Ríos J, et al. Protein quantification by bicinchoninic acid (BCA) assay follows complex kinetics and can be performed at short incubation times [J]. Analytical biochemistry, 2020, 608: 113904.

[3]. Kontoudakis N, et al. The colorimetric determination of copper in wine: total copper [J]. Australian Journal of Grape and Wine Research, 2020, 26(2): 121-129.

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

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