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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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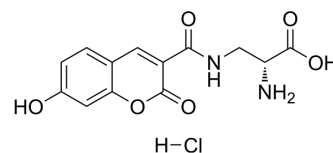
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HADA hydrochloride

Cat. No.:	HY-131045
CAS No.:	2253733-10-5
Molecular Formula:	C ₁₃ H ₁₃ ClN ₂ O ₆
Molecular Weight:	328.71
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (380.27 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.0422 mL	15.2110 mL	30.4220 mL
		5 mM		0.6084 mL	3.0422 mL	6.0844 mL
		10 mM		0.3042 mL	1.5211 mL	3.0422 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (6.33 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	HADA hydrochloride (HCC-Amino-D-alanine hydrochloride) is a blue ($\lambda_{em} \sim 450$ nm) fluorescent D-amino acid (FDAA). FDAAs are efficiently incorporated into the peptidoglycans (PGs) of diverse bacterial species at the sites of PG biosynthesis, allowing specific and covalent probing of bacterial growth with minimal perturbation ^[1] .
In Vitro	FDAA labeling can take as little as 30s for a rapidly growing species such as Escherichia coli. Although HADA hydrochloride is dimmer and less photostable than FDL or TDL, it most reproducibly and robustly labels the PG of most bacterial species, typically without the need for extensive optimization ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- mBio. 2024 May 16:e0067924.
- bioRxiv. 2023 Feb 20.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Erkin Kuru, et al. Synthesis of fluorescent D-amino acids and their use for probing peptidoglycan synthesis and bacterial growth in situ. Nat Protoc. 2015 Jan;10(1):33-52.

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

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