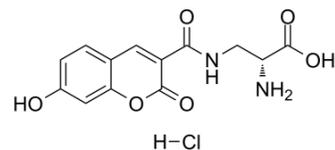


HADA hydrochloride

Cat. No.:	HY-131045
CAS No.:	2253733-10-5
Molecular Formula:	C ₁₃ H ₁₃ ClN ₂ O ₆
Molecular Weight:	328.71
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HADA Hydrochloride is a blue 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	HADA Hydrochloride is a blue FDAA (3, emission wavelength, λ_{em} ~450 nm) ^[1] . 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.

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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