

# NCT-501 hydrochloride Biochemical | NCT-501 biochemical

NCT-501 hydrochloride

CATALOG #  
**AAA228077**

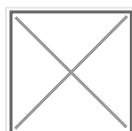
## PRODUCT SYNONYMS

NCT-501 hydrochloride; NCT-501 biochemical

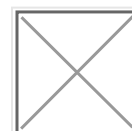
## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                                         |
| CAS                     | 2080306-22-3                                                                                                                                |
| Targets&IC50            | hALDH1A1:40 nM (IC50)                                                                                                                       |
| Solubility              | <1mg/ml refers to the product slightly soluble or insoluble                                                                                 |
| In vitro                | NCT-501 (100 ug/animal; i.t.; every alternate day for 20 days) shows a 78% inhibition in tumor growth in Cal-27 CisR derived xenografts[1]. |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                    |

## IMAGES



Structure  
MP-PEG4-VK(Boc)G-OSu, CAS 2378428-21-6



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## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NCT-501 biochemical | NCT-501 hydrochloride is a potent and selective theophylline-based inhibitor of aldehyde dehydrogenase 1A1 (ALDH1A1), inhibits hALDH1A1 with IC 50 of 40 nM, typically shows better selectivity over other ALDH isozymes and other dehydrogenases (hALDH1B1, hALDH3A1, and hALDH2, IC 50 57 uM). |
| References                                          | 1. Jeffrey S, et, al. Camptothecin peptide conjugates. WO2019195665A1.                                                                                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/nct-501-hydrochloride/228077>