# Product Data Sheet

Product Name: AC-green
Cat. No.: GC61592

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 2937705-58-1 | | |
| SMILES | O=C(NC1=CC2=CC=C(C=C2OC1=O)N(CC)CC)C(COC(NC3=CC=CC=C3)=O)=C | | |
| Formula | $C_{24}H_{25}N_3O_5$ | M.Wt | 435.47 |
| Solubility | DMSO : 100 mg/mL (229.64 mM; Need ultrasonic) | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | AC-green | | |

## Background

AC-green (VDP-green) is a β-allyl carbamate fluorescent probe for specifically imaging vicinal dithiol proteins (VDPs) in living systems (Λex/Λem=400/475 nm). AC-green can detect the reduced bovine serum albumin (rBSA) with high sensitivity. AC-green displays low toxicity and features high sensitivity, and is suitable for sensing VDPs in living cells and zebrafishes[1].

AC-green (VDP-green) can respond to VDPs with more than 60-fold increase of emission in aqueous solution, while there is no significant interference from biological thiols, amino acids or inorganic salts[1]. AC-green (2 μM; 90 min) has no apparent fluorescence signal within the pH range of 5.0-9.0. Addition of rBSA turns on the fluorescence[1]. AC-gree (10 μM) has low cytotoxicity in HepG2 cells and Hela cells[1]. AC-gree (10 μM; for 15 min) images VDPs in living HepG2 cells and bright green fluorescence appeared. This fluorescence is inhibited when the cells are pretreated with PAO, a popular specificligand for protein vicinal dithiols[1]. AC-gree (10 μM; for 20 min) incubates with zebrafishes has a strong fluorescence signal appeared in the green channel[1].

[1]. Lanning Zhao, et al. A β-allyl carbamate fluorescent probe for vicinal dithiol proteins. Chem Commun (Camb). 2020 Mar 5;56(19):2857-2860.


***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***
***Address: 10292 Central Ave. #205, Montclair, CA, USA***

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