

CAY10737

## Chemical Properties

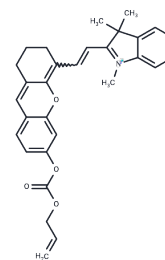
CAS No. : 2079118-42-4

Formula: C<sub>30</sub>H<sub>30</sub>NO<sub>4</sub>

Molecular Weight: 468.572

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CAY10737 is a turn-on fluorescent probe for the detection of carbon monoxide (CO). It is selective for CO over a variety of anions, amino acids, amines, biothiols, and reactive species. In the presence of palladium (Pd) and CO, CAY10737 undergoes the Pd <sup>0</sup> -mediated Tsuji-Trost reaction to release a fluorescent compound that has absorption and emission maxima of 678/714 nm, respectively. This fluorescence can be used to detect CO production in vitro and in vivo. CAY10737 has low cytotoxicity, decreasing viability of HeLa cells by less than 25% when used at a concentration of 50 μM with PdCl <sub>2</sub> for 24 hours.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 30 mg/mL (64.02 mM),Sonication is recommended. DMF: 30 mg/mL (64.02 mM),Sonication is recommended. Ethanol: 30 mg/mL (64.02 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1342 mL	10.6708 mL	21.3415 mL
5 mM	0.4268 mL	2.1342 mL	4.2683 mL
10 mM	0.2134 mL	1.0671 mL	2.1342 mL
50 mM	0.0427 mL	0.2134 mL	0.4268 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Feng, W., and Feng, H. A readily available colorimetric and near-infrared fluorescent turn-on probe for detection of carbon monoxide in living cells and animals. *Sens. Actuators B Chem.* 255(Part 2), 2314-2320 (2018).

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