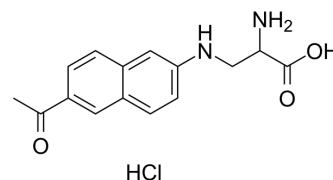


## (±)-ANAP hydrochloride

<b>Cat. No.:</b>	HY-101937C
<b>CAS No.:</b>	2308035-47-2
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	309
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 0.52 mg/mL (1.68 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.2362 mL	16.1812 mL	32.3625 mL
5 mM	---	---	---
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

(±)-ANAP hydrochloride is the unnatural amino acid analog of prodan, acts as a fluorescent probes, and enhances environmental sensitivity.

#### In Vitro

(±)-ANAP hydrochloride is the amino acid analog of prodan, acts as a fluorescent probes, and enhances environmental sensitivity with comparable or increased brightness<sup>[1]</sup>. (±)-ANAP hydrochloride is sensitive to polarity with changes in intensity and emission wavelength<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nat Chem Biol. 2024 Feb 1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

---

## REFERENCES

- [1]. Lee HS, et al. Genetic incorporation of a small, environmentally sensitive, fluorescent probe into proteins in *Saccharomyces cerevisiae*. *J Am Chem Soc.* 2009 Sep 16;131(36):12921-3.
- [2]. Xiang Z, et al. Enantiospecific synthesis of genetically encodable fluorescent unnatural amino acid L-3-(6-acetylnaphthalen-2-ylamino)-2-aminopropanoic acid. *J Org Chem.* 2011 Aug 5;76(15):6367-71.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA