
Product Data Sheet

Product Name: (±)-ANAP

Cat. No.: GC30682

Chemical Properties

Cas. No. 1185251-08-4

SMILES NC(CNC1=CC=C2C=C(C(C)=O)C=CC2=C1)C(O)=OFormula $C_{15}H_{16}N_2O_3$ M.Wt 272.3

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 **Background**

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

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

[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.

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