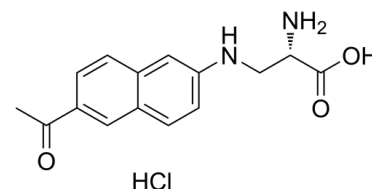


Data Sheet

Product Name:	L-ANAP (hydrochloride)
Cat. No.:	CS-0043503
Molecular Formula:	C ₁₅ H ₁₇ ClN ₂ O ₃
Molecular Weight:	308.76
Target:	Fluorescent Dye
Pathway:	Others
Solubility:	H ₂ O : 1 mg/mL (ultrasonic); DMSO : 33.33 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

L-ANAP hydrochloride is a genetically encodable and polarity-sensitive fluorescent unnatural amino acid (Uaa). *In Vitro*: L-ANAP is a fluorescent, noncanonical amino acid which can be used for specific fluorescent labeling^[1]. L-ANAP is a genetically encodable and polarity-sensitive fluorescent unnatural amino acid (Uaa). Fluorescent Uaas, including L-dansylalanine, L-(7-hydroxycoumarin-4-yl)ethylglycine and L-ANAP, are of particular interest for molecular and cellular biology, which may complement and enhance the widely used fluorescent proteins (FPs)^[2].

References:

[1]. Zagotta WN, et al. Measuring distances between TRPV1 and the plasma membrane using a noncanonical amino acid and transition metal ion FRET. J Gen Physiol. 2016 Feb;147(2):201-16.

[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.

CAIndexNames:

L-ANAP hydrochloride

SMILES:

N[C@@H](CNC1=CC=C2C=C(C(C)=O)C=CC2=C1)C(=O)O.Cl

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

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