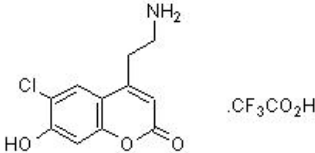


FFN102 (Mini 102), Fluorescent DAT and VMAT2 substrate ab120866

[3 References](#) [5 图像](#)

概述

产品名称	FFN102 (Mini 102), Fluorescent DAT and VMAT2底物
描述	Novel pH responsive FFN. Measures localization and activity of dopaminergic presynaptic terminals.
生物学描述	Novel, pH responsive fluorescent false neurotransmitter (FFN). Rodent DAT and VMAT2 substrate. Enables two-photon microscopic imaging of localization and activity of dopaminergic presynaptic terminals in the striatum of mouse acute brain slice. More selective for dopaminergic synapses than FFN511 (ab120331). Exhibits greater fluorescence emission in neutral than acidic environments allowing optical measurement of synaptic vesicle content release. Sufficiently bright, photostable and suitable for two-photon fluorescence microscopy and standard fluorescent microscopy. Compatible with GFP tags.
纯度	> 98%
CAS编号	1234064-11-9
化学结构	

性能

化学名称	4-(2-Aminoethyl)-6-chloro-7-hydroxy-2H-1-benzopyran-2-one 2,2,2-trifluoroacetate
分子量	353.68
分子式	C ₁₁ H ₁₀ ClNO ₃ .CF ₃ CO ₂ H
PubChem识别号	91885430
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 50 mM
处理	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in

tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

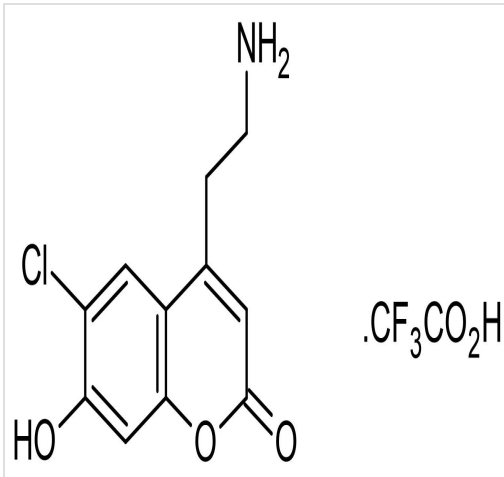
SMILES

C1=C(C2=CC(=C(C=C2OC1=O)O)Cl)CCN.C(=O)C(F)(F)F)O

来源

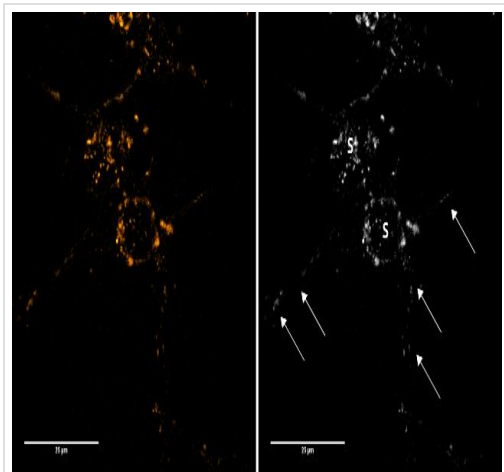
Synthetic

图片



Chemical Structure - FFN102 (Mini 102),
Fluorescent DAT and VMAT2 substrate (ab120866)

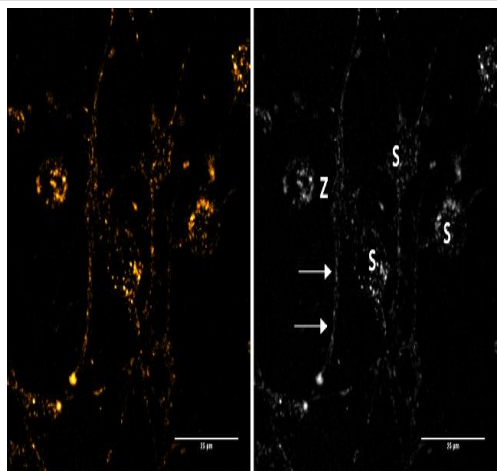
2D chemical structure image of ab120866, FFN102 (Mini 102),
Fluorescent DAT and VMAT2 substrate



Fluorescent Cell Imaging - FFN102 (Mini 102),
Fluorescent DAT and VMAT2 substrate (ab120866)

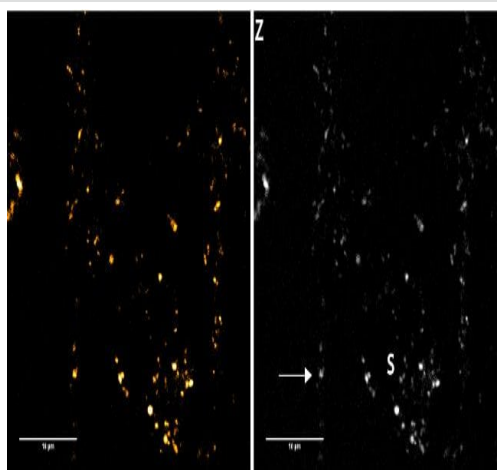
All images provided by Thorsten Lau

Figure 1: Two neuronal cells stained with 50 μM FFN102 on differentiation day 10. Shown is a sum projection of a confocal z-stack. Accumulation of FFN102 can be observed along the neurites (arrows) and the cell soma (S).



Fluorescent Cell Imaging - FFN102 (Mini 102),
 Fluorescent DAT and VMAT2 substrate (ab120866)

Figure 2a: Images in the first row show a group of neuronal cells stained with 50 μ M FFN102 (sum projection of a confocal stack). FFN102 localizes to structures on the cell soma (S) as well as neurites (arrows). Z indicates the area zoomed in for an additional z-stack.



Fluorescent Cell Imaging - FFN102 (Mini 102),
 Fluorescent DAT and VMAT2 substrate (ab120866)

Figure 2b: Zoomed in area of "Z" from figure 2b. The arrow indicates a globular structure on a neurite. S indicates FFN102 positive structures on the cell soma.

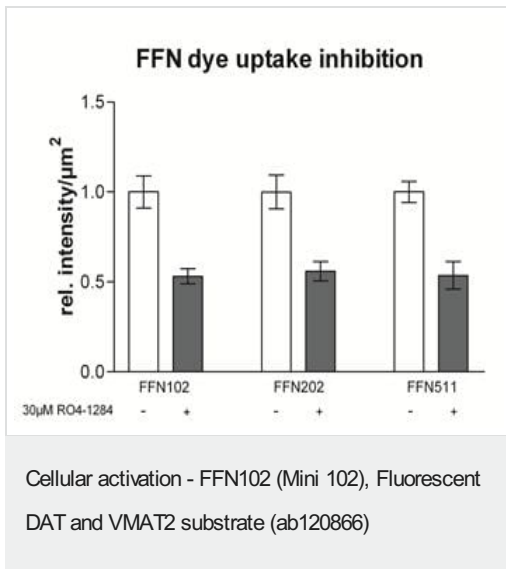


Figure 3: FFN102 dye uptake inhibition on addition of VMAT2 inhibitor RO4-1284

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