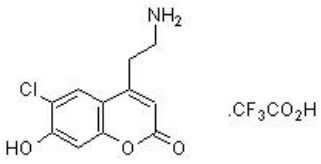
abcam

Product datasheet

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

3 References 画像数 5

製品の概要

製品名	FFN102 (Mini 102), Fluorescent DAT and VMAT2 substrate
製品の詳細	Novel pH responsive FFN. Measures localization and activity of dopaminergic presynaptic terminals.
生理活性の詳細	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.
精製度	> 98%
CAS 番号	1234064-11-9
構造式	

製品の特性

体系名	4-(2-Aminoethyl)-6-chloro-7-hydroxy-2*H*-1-benzopyran-2-one 2,2,2-trifluoroacetate
分子量	353.68
分子式	$C_{11}H_{10}ClNO_3.CF_3CO_2H$
PubChem 登録番号	91885430
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in water to 50 mM
使用に関する注意	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

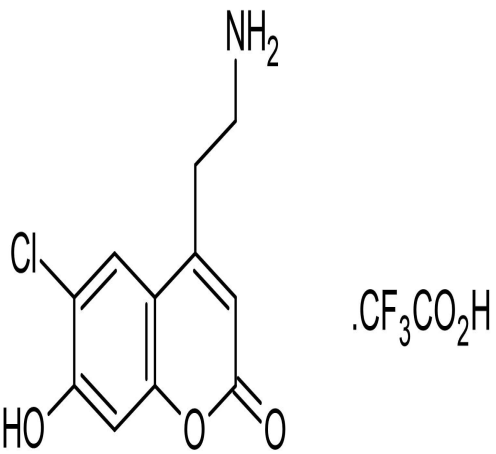
tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

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

SMILES 線形表記 C1=C(C2=CC(=C(C=C2OC1=O)O)Cl)CCN.C(=O)(C(F)(F)F)O

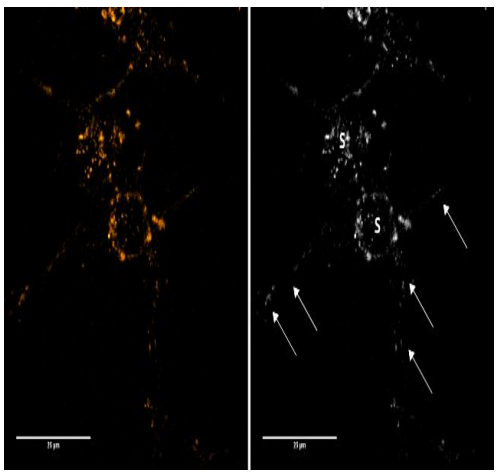
由来 Synthetic

画像



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

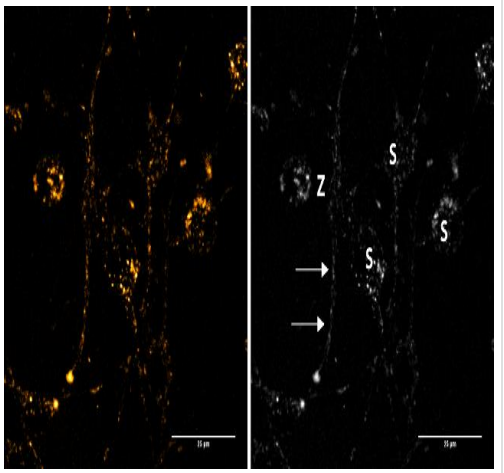
2D chemical structure image of ab120866, FFN102 (Mini 102), Fluorescent DAT and VMAT2 substrate



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

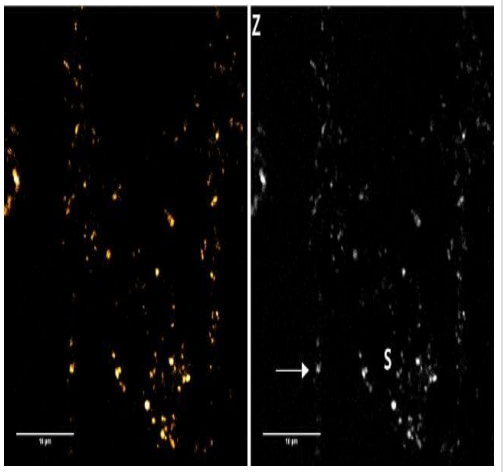
All images provided by Thorsten Lau

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).



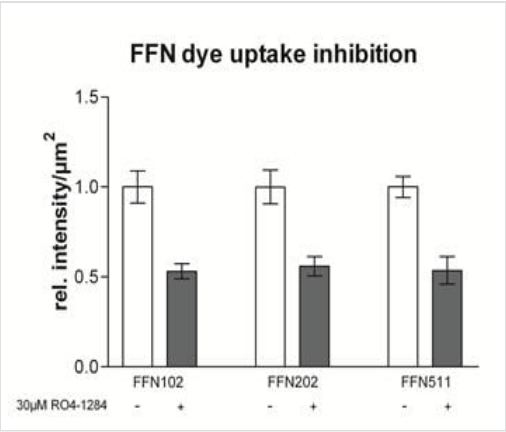
Fluorescent Cell Imaging - FFN102 (Mini 102), Fluorescent DAT and VMAT2 substrate (ab120866)

Figure 2a: Images in the first row show a group of neuronal cells stained with 50 µM 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.



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

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

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