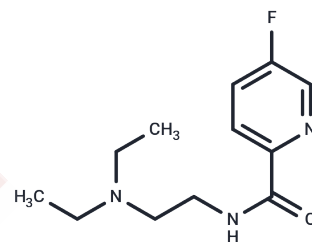


## Melanin probe-1

## Chemical Properties

CAS No. :	1420844-62-7
Formula:	C <sub>12</sub> H <sub>18</sub> FN <sub>3</sub> O
Molecular Weight:	239.29
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Melanin probe-1, an 18F-picolinamide-based PET probe, is utilized for PET imaging of malignant melanoma. It demonstrates remarkable tumor targeting efficacy, superior tumor imaging contrasts, favorable biodistribution profiles, and robust in vivo stability.
Targets(IC50)	Others
In vivo	Melanin probe-1, administered via the tail vein at a dosage of 3.7 MBq, demonstrates exemplary tumor-targeting efficiency, high in vivo stability, and optimal pharmacokinetic attributes, including rapid urinary clearance and minimal uptake by major organs, culminating in near-background levels at 2 hours. This specificity is further evidenced by high tumor-to-nontumor ratios, underscoring Melanin probe-1 PET's significant promise for enhancing melanoma detection. In C57BL/6 mice with B16F10 murine melanomas, tumor uptake of Melanin probe-1 recorded $12.74 \pm 1.70$ , $16.61 \pm 2.60$ , and $16.87 \pm 1.23$ %ID/g at 0.5, 1, and 2 hours post-administration, respectively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.179 mL	20.8951 mL	41.7903 mL
5 mM	0.8358 mL	4.179 mL	8.3581 mL
10 mM	0.4179 mL	2.0895 mL	4.179 mL
50 mM	0.0836 mL	0.4179 mL	0.8358 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu H, et al. Development of <sup>18</sup>F-labeled picolinamide probes for PET imaging of malignant melanoma. J Med Chem. 2013;56(3):895-901.

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