
Product Data Sheet

Product Name: MK-6884
Cat. No.: GC67979

Chemical Properties

Cas. No. 2102194-04-5

Formula $C_{25}H_{25}N_5O$ M.Wt 411.5

Solubility THF : 3.33 mg/mL (8.09 mM; Need ultrasonic) 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

MK-6884 is a **M4 muscarinic receptor** positive allosteric modulator (PAM) with a K_i value of 0.19 nM. MK-6884 can be used for the research of the neurodegenerative diseases. MK-6884 can be conveniently radiolabeled with carbon-11 and as a positron emission tomography (PET) imaging agent^[1].

MK-6884 (compound 13; 0-22 µM) is a PAM of ACh function in a cell-based Ca^{2+} mobilization assay, with an EC_{50} of 27 nM^[1].

[¹¹C]MK-6884 (compound 13) shows non-displaceable binding potential (BP_{ND}) of 0.83 in rhesus monkeys^[1].

[¹¹C]MK-6884 (approximately 185 MBq, <2 μg; single intravenous) distributes on the known presence of M4 receptors in the rhesus monkeys brain^[1].

[¹¹C]MK-688 can penetrate the blood-brain barrier in monkeys^[1].

[1]. Tong L, et al. Discovery of [¹¹C]MK-6884: A Positron Emission Tomography (PET) Imaging Agent for the Study of M4Muscarinic Receptor Positive Allosteric Modulators

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

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(PAMs) in Neurodegenerative Diseases. J Med Chem. 2020;63(5):2411-2425.

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