

Product Data Sheet

Product Name: IDT307
Cat. No.: GC61837

Chemical Properties

Cas. No. 1141-41-9

SMILES C[N+]1=CC=C(C2=CC=C(N(C)C)C=C2)C=C1.[I-]

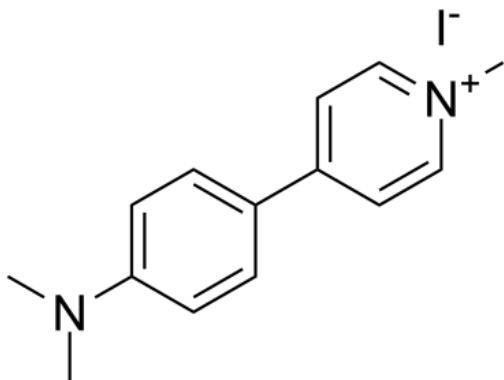
Formula $C_{14}H_{17}IN_2$ M.Wt 340.2

Solubility DMSO : 62.5 mg/mL (183.72 mM) 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

IDT307, an analog of the organic cation MPP⁺, is a specific fluorescent substrate for DAT (fluorescent substrate APP⁺)[1].

IDT307, an analog of the organic cation MPP⁺, is transported into CP epithelial cells at the apical (CSF-facing) membrane and sensitive to inhibition by the PMAT inhibitor quinine[1]. IDT307 uptake and intracellular accumulation is greatly attenuated by ~70% in CP tissue from the Pmat knockout mouse[1].

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

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References:

[1]. Tao Hu, et al. Molecular mechanisms of organic cation and anion transport at the blood-CSF barrier. 01 April 2018.

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