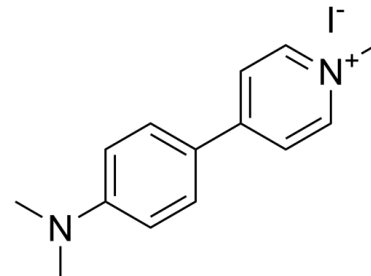


## Data Sheet

<b>Product Name:</b>	IDT307
<b>Cat. No.:</b>	CS-0103574
<b>CAS No.:</b>	1141-41-9
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>17</sub> IN <sub>2</sub>
<b>Molecular Weight:</b>	340.20
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Solubility:</b>	DMSO : 62.5 mg/mL (183.72 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

IDT307, an analog of the organic cation MPP<sup>+</sup>, is a specific fluorescent substrate for DAT (fluorescent substrate APP<sup>+</sup>)<sup>[1]</sup>. **In Vitro:** IDT307, an analog of the organic cation MPP<sup>+</sup>, is transported into CP epithelial cells at the apical (CSF-facing) membrane and sensitive to inhibition by the PMAT inhibitor quinine<sup>[1]</sup>. IDT307 uptake and intracellular accumulation is greatly attenuated by ~70% in CP tissue from the Pmat knockout mouse<sup>[1]</sup>.

### References:

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

### CAIndexNames:

Pyridinium, 4-[4-(dimethylamino)phenyl]-1-methyl-, iodide (1:1)

### SMILES:

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

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA