

**Product Name:** PPTN hydrochloride

**Catalog No.:** 4862

**Batch No.:** 1

CAS Number: 1992047-65-0

IUPAC Name: 4-[4-(4-Piperidinyl)phenyl]-7-[4-(trifluoromethyl)phenyl]-2-naphthalenecarboxylic acid hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>29</sub>H<sub>24</sub>F<sub>3</sub>NO<sub>2</sub>.HCl.¼H<sub>2</sub>O

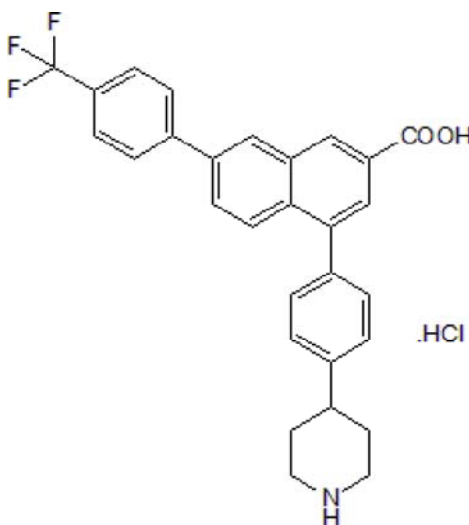
**Batch Molecular Weight:** 516.46

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.2 (Chloroform:Methanol [1:4])

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.44	4.98	2.71
Found	67.07	4.83	2.66

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**Description:**

PPTN is a high affinity and selective P2Y<sub>14</sub> antagonist (K<sub>B</sub> = 434 pM), which exhibits >10,000-fold selectivity for P2Y<sub>14</sub> over other P2Y receptors. PPTN inhibits UDP-glucose and MRS 2690-induced porcine pancreatic artery contraction ex vivo, and also blocks UDP-glucose-induced chemotaxis of HL-60 leukemia cells in vitro.

**Physical and Chemical Properties:**

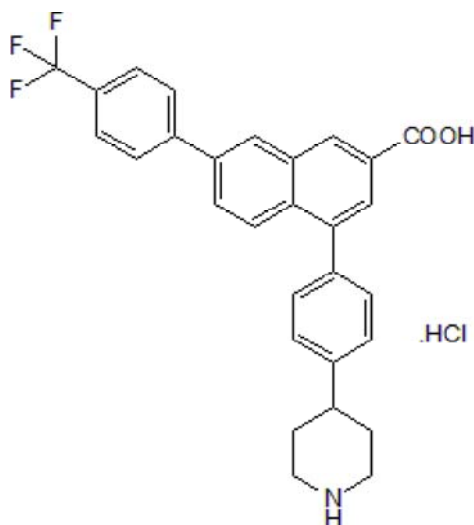
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Batch Molecular Weight: 516.46

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Alsaqati et al** (2014) Novel vasocontractile role of the P2Y<sub>14</sub> receptor: characterization of its signalling in porcine isolated pancreatic arteries. *Br.J.Pharmacol.* **171** 701. PMID: 24138077.

**Barrett et al** (2013) A selective high-affinity antagonist of the P2Y<sub>14</sub> receptor inhibits UDP-glucose-stimulated chemotaxis of human neutrophils. *Mol.Pharmacol.* **84** 41. PMID: 23592514 .

**Gao et al** (2013) The role of P2Y<sub>14</sub> and other P2Y receptors in degranulation of human LAD2 mast cells. *Purinergic Signal.* **9** 31. PMID: 22825617.

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