

Product Name: PIPE 3297 dihydrochloride

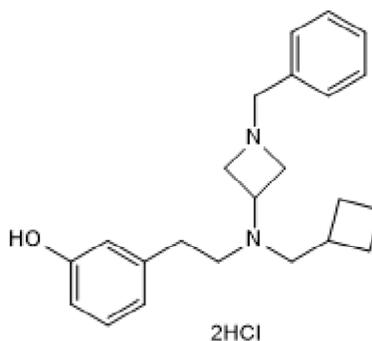
Catalog No.: 8135

Batch No.: 1

IUPAC Name: 3-(2-((1-Benzylazetid-3-yl)(cyclobutylmethyl)amino)ethyl)phenol dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight: 441.44
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 water to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.58	7.76	6.35
Found	61.98	7.76	6.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

PIPE 3297 dihydrochloride is a potent and selective agonist of κ opioid receptor (KOR). It potently activates G-protein signaling (GTP γ S EC₅₀ = 1.1 nM, 91% E_{max}). It displays 40- and 600- fold selectivity over MOR and DOR respectively. PIPE 3297 dihydrochloride induces differentiation of oligodendrocyte progenitor cells (OPC) in vitro and in vivo, leading to significant increase of mature oligodendrocytes (OL) in healthy mice and inducing myelination. It also reduces disease score in mouse experimental autoimmune encephalomyelitis (EAE) model. Exhibits low β -arrestin2 recruitment activity, avoiding the sedating effects typical... Please see product specific page on www.tocris.com for full description.

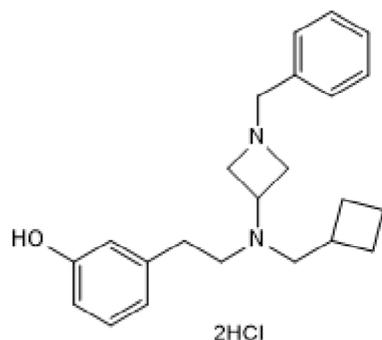
Physical and Chemical Properties:

Batch Molecular Weight: 441.44

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Schrader *et al* (2024) Identification and in vivo evaluation of myelination agent PIPE-3297, a selective kappa opioid receptor agonist devoid of β -Arrestin-2 recruitment efficacy. *ACS Chem.Neurosci.* **15** 685. PMID: 38265210.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

water 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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