

Product Name: Talabostat mesylate

Catalog No.: 3719

Batch No.: 1

CAS Number: 150080-09-4

IUPAC Name: *B*-[(2*R*)-1-[(2*S*)-2-Amino-3-methyl-1-oxobutyl]-2-pyrrolidiny]boronic acid methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₉BN₂O₃.CH₃SO₃H

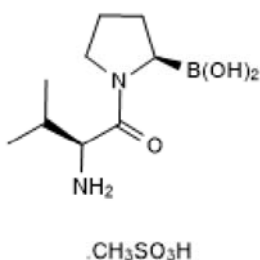
Batch Molecular Weight: 310.18

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.72	7.47	9.03
Found	39.08	7.55	8.98

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

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Description:

Potent DPP IV inhibitor (IC₅₀ values are <4, 4, 11, 310 and 560 nM at DPP4, DPP8, DPP9, DPP7 and FAP). Activates the inflammasome sensor protein NLRP1b and selectively triggers pyroptosis in monocytes and macrophages. Induces immune-mediated tumor regressions in multiple mouse models of cancer. Orally available.

Physical and Chemical Properties:

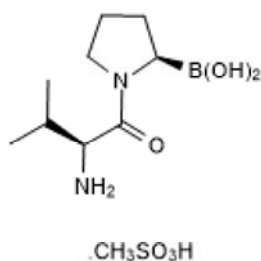
Batch Molecular Formula: C₉H₁₉BN₂O₃.CH₃SO₃H

Batch Molecular Weight: 310.18

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 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:

Okondo *et al* (2018) Inhibition of Dpp8/9 Activates the Nlrp1b Inflammasome. *Cell Chem.Biol.* **25** 262. PMID: 29396289.

Okondo *et al* (2017) DPP8 and DPP9 inhibition induces pro-caspase-1-dependent monocyte and macrophage pyroptosis. *Nat.Chem.Biol.* **13** 46. PMID: 27820798.

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