

**Product Name:** Talabostat mesylate

**Catalog No.:** 3719

**Batch No.:** 2

CAS Number: 150080-09-4

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>19</sub>BN<sub>2</sub>O<sub>3</sub>.CH<sub>3</sub>SO<sub>3</sub>H.

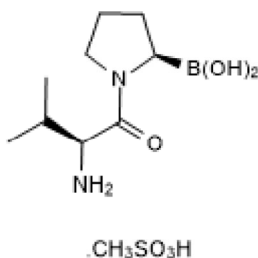
**Batch Molecular Weight:** 310.18

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.72	7.47	9.03
Found	37.99	7.24	8.62

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

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**Description:**

Talabostat mesylate is a potent DPP IV inhibitor (IC<sub>50</sub> values are <4, 4, 11, 310 and 560 nM at DPP4, DPP8, DPP9, DPP7 and FAP, respectively). Activates the inflammasome sensor protein NLRP1b and selectively triggers pyroptosis in monocytes and macrophages. Induces immune-mediated tumor regression in multiple mouse models of cancer. Orally bioavailable.

**Physical and Chemical Properties:**

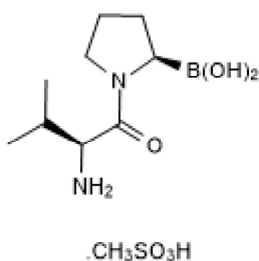
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Batch Molecular Weight: 310.18

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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.

**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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