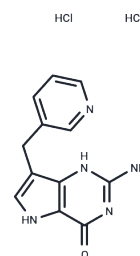


## Peldesine dihydrochloride

## Chemical Properties

CAS No. :	2772702-10-8
Formula:	C <sub>12</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>5</sub> O
Molecular Weight:	314.17
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Peldesine (BCX 34) dihydrochloride is a potent, competitive, reversible, and orally active inhibitor of purine nucleoside phosphorylase (PNP), with IC <sub>50</sub> values of 36 nM, 5 nM, and 32 nM against human, rat, and mouse red blood cell (RBC) PNP, respectively. Additionally, it inhibits T-cell proliferation with an IC <sub>50</sub> of 800 nM, showing promise for research into cutaneous T-cell lymphoma, psoriasis, and HIV infection [1] [2] [3] [4].
Targets(IC <sub>50</sub> )	Nucleoside Antimetabolite/Analog,Others,HIV Protease
In vitro	Peldesine (BCX 34; 0-50 μM; 72 hours; Jurkat cells) effectively inhibits T-cell proliferation at concentrations below 10 μM when combined with 10 μM dGuo, without affecting B-cell proliferation. This action suggests Peldesine predominantly impacts a later phase of T-cell activation via an IL-2-independent mechanism, indicating its potential to selectively suppress T-cell immune responses. Additionally, Peldesine significantly inhibits human leukemia CCRF-CEM T-cell proliferation (IC <sub>50</sub> of 0.57 μM) in the presence of deoxyguanosine, without impacting rat or mouse T-cell proliferation at concentrations up to 30 μM. These findings highlight Peldesine's specific inhibitory action on certain T-cell lines under defined conditions.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.183 mL	15.915 mL	31.8299 mL
5 mM	0.6366 mL	3.183 mL	6.366 mL
10 mM	0.3183 mL	1.5915 mL	3.183 mL
50 mM	0.0637 mL	0.3183 mL	0.6366 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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