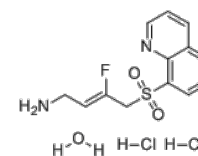


**Product Name** : PXS-5505 dihydrochloride monohydrate  
**Cat. No.** : PC-21385  
**CAS No.** : 2414974-55-1  
**Molecular Formula** : C<sub>13</sub>H<sub>17</sub>Cl<sub>2</sub>FN<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 371.25  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

PXS-5505 dihydrochloride monohydrate is an orally available, small-molecule, irreversible inhibitor of all lysyl oxidases (**pan-LOX**) family members, with potential antifibrotic activity.

PXS-5505 inhibited lysyl oxidase activity in the skin and LOXL2 activity in the lung.

PXS-5505 exhibited anti-fibrotic effects in the SSc skin mouse model, reducing dermal thickness and  $\alpha$ -smooth muscle actin.

PXS-5505 reduced pulmonary fibrosis toward normal levels in bleomycin-induced mouse lung models.

PXS-5505 also reduced fibrotic extent in models of the ischaemia-reperfusion heart, the unilateral ureteral obstruction kidney, and the CCl<sub>4</sub>-induced fibrotic liver.

## References

Yimin Yao, et al. Int J Mol Sci. 2022 May 16;23(10):5533.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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