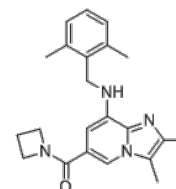


**Product Name** : Zastaprazan  
**Cat. No.** : PC-38430  
**CAS No.** : 2133852-18-1  
**Molecular Formula** : C<sub>22</sub>H<sub>26</sub>N<sub>4</sub>O  
**Molecular Weight** : 362.477  
**Target** : Proton Pump  
**Solubility** : 10 mM in DMSO



1. Jin Mo Ku, et al. *Pharmacol Res Perspect.* 2023 Jun;11(3):e01090.

## Biological Activity

Zastaprazan (JP-1366) is a potent selective inhibitor of **gastric H<sup>+</sup>/K<sup>+</sup>-ATPase** activity with IC<sub>50</sub> of 16.7 nM, >400-fold selectivity over Na<sup>+</sup>/K<sup>+</sup>-ATPase activity.

JP-1366 (2 mg/kg) inhibits basal and histamine-stimulated gastric acid secretion in pylorus-ligated rats.

JP-1366 inhibits esophageal mucosal damage in a reflux esophagitis model with ED<sub>50</sub> of 0.53 mg/kg.

JP-1366 exhibits a more than 2-fold higher inhibitory effect on esophageal injury than TAK-438 in GERD lesions and has a more potent inhibitory effect in indomethacin- or aspirin-induced gastric ulcer rat models than TAK-438.

## References

