

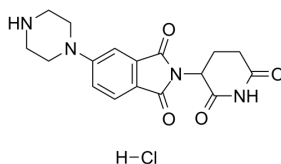
## Thalidomide-piperazine (hydrochloride)

Cat. No.: HY-132971  
CAS No.: 2228029-82-9  
Batch No.: 126944  
Chemical Name: 1H-Isoindole-1,3(2H)-dione, 2-(2,6-dioxo-3-piperidinyl)-5-(1-piperazinyl)-, hydrochloride (1:1)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>17</sub>H<sub>19</sub>ClN<sub>4</sub>O<sub>4</sub>  
Molecular Weight: 378.81  
Storage: 4°C, sealed storage, away from moisture  
\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### Chemical Structure:



### ANALYTICAL DATA

Appearance: Light yellow to green yellow (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
LCMS: Consistent with structure  
Purity (LCMS): 98.11%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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