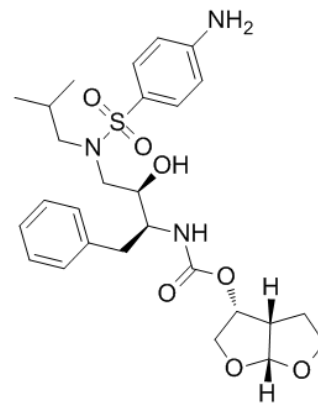


**Product Name** : Darunavir  
**Cat. No.** : PC-45164  
**CAS No.** : 206361-99-1  
**Molecular Formula** : C<sub>27</sub>H<sub>37</sub>N<sub>3</sub>O<sub>7</sub>S  
**Molecular Weight** : 547.6636  
**Target** : HIV  
**Solubility** : 10 mM in DMSO



## Biological Activity

Darunavir (TMC114, UIC-94017) is a potent, selective **HIV-1 protease** inhibitor that is extremely potent against laboratory HIV-1 strains and primary clinical isolates with IC<sub>50</sub> of 3 nM, IC<sub>90</sub> of 9 nM. Darunavir blocks the infectivity and replication of HIV-1(NL4-3) variants with IC<sub>50</sub> of 3-29 nM, also potent against multi-PI-resistant clinical HIV-1 variants isolated from patients. Darunavir is used to treat and prevent HIV/AIDS.

## References

- Surleraux DL, et al. *J Med Chem.* 2005 Mar 24;48(6):1813-22.  
Koh Y, et al. *Antimicrob Agents Chemother.* 2003 Oct;47(10):3123-9.  
King NM, et al. *J Virol.* 2004 Nov;78(21):12012-21.

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

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