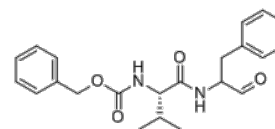


**Product Name** : MDL28170  
**Cat. No.** : PC-20599  
**CAS No.** : 88191-84-8  
**Molecular Formula** : C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 382.46  
**Target** : Calpain  
**Solubility** : 10 mM in DMSO



CAS: 88191-84-8

## Biological Activity

MDL28170 is a potent, selective and membrane-permeable cysteine protease inhibitor of **calpain**, also blocks γ-secretase activity.

MDL-28170 significantly and time-dependently improves the recovery of synaptic responses in hippocampal slices following prolonged, moderate hypoxia without hypoxic depolarization.

MDL-28170 dose-dependently inhibits brain cysteine proteinase activity with K<sub>i</sub> of 10 nM.

MDL-28170 (50 mg/kg, i.p.) completely prevents the striatal damage in vivo.

MDL-28170 (30 mg/kg, i.p.) reduces the functional and structural deterioration of corpus callosum following fluid percussion injury.

## References

Chen ZF, et al. **Brain Res.** 1997 Sep 19;769(1):188-92.

Li PA, et al. **Neurosci Lett.** 1998 May 8;247(1):17-20.

De Strooper B, et al. **Nature.** 1999 Apr 8;398(6727):518-22.

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

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