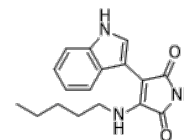


**Product Name** : IM-54  
**Cat. No.** : PC-27000  
**CAS No.** : 861891-50-1  
**Molecular Formula** : C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 297.36  
**Target** : Apoptosis Inducer  
**Solubility** : 10 mM in DMSO



## Biological Activity

IM-54 is a specific oxidative stress-induced necrosis inhibitor, inhibits necrotic cell death induced by H<sub>2</sub>O<sub>2</sub> with IC<sub>50</sub> of 0.25 μM in HL-60 cells, does not inhibit apoptosis induced by various anticancer drugs or Fas ligand, or necroptosis.

IM-54 does not show significant inhibitory activities against a panel of 467 kinases.

IM-54 inhibited necrosis induced by oxidative stress (TBHP and H<sub>2</sub>O<sub>2</sub>), whereas Z-VAD did not.

IM-54 did not inhibit apoptosis induced by anticancer drugs (actinomycin D, camptothecin, and etoposide) or physiological death ligand (Fas ligand), which was strongly inhibited by Z-VAD in each case.

IM-54 shows therapeutic effect on ischemia-reperfusion injury.

## References

Dodo K, et al. Bioorg Med Chem Lett. 2005 Jun 15;15(12):3114-8.

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

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