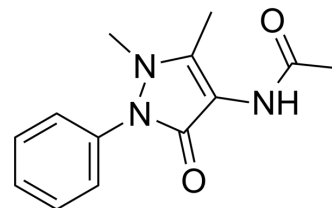


## 4-Acetylaminoantipyrine

Cat. No.:	HY-W268542
CAS No.:	83-15-8
Molecular Formula:	C <sub>13</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	245.28
Target:	COX; SOD; PGE synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

4-Acetylaminoantipyrine (4-AA) is a derivative of antipyrine (HY-B0171). 4-Acetylaminoantipyrine acts as a PGE<sub>2</sub>-dependent blocker and inhibitor of cyclooxygenase (COX)<sup>[1]</sup>. 4-Acetylaminoantipyrine can inhibit Cu/ZnSOD<sup>[2]</sup>. 4-Acetylaminoantipyrine can spontaneously bind with bovine serum albumin (BSA) and alter its conformation<sup>[3]</sup>.

### REFERENCES

- [1]. Berno CR, et al. Aminoantipyrine reduces toxic and genotoxic effects of doxorubicin, cisplatin, and cyclophosphamide in male mice. *Mutat Res Genet Toxicol Environ Mutagen*. 2016 Jul;805:19-24.
- [2]. Teng Y, et al. Insights into potentially toxic effects of 4-aminoantipyrine on the antioxidant enzyme copper-zinc superoxide dismutase. *J Hazard Mater*. 2013 Nov 15;262:318-24.
- [3]. Teng Y, et al. The interaction between 4-aminoantipyrine and bovine serum albumin: multiple spectroscopic and molecular docking investigations. *J Hazard Mater*. 2011 Jun

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

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