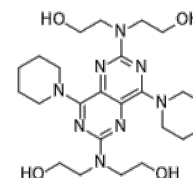


**Product Name** : Dipyridamole  
**Cat. No.** : PC-23575  
**CAS No.** : 58-32-2  
**Molecular Formula** : C<sub>24</sub>H<sub>40</sub>N<sub>8</sub>O<sub>4</sub>  
**Molecular Weight** : 504.64  
**Target** : Phosphodiesterase (PDE)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Dipyridamole is an orally active phosphodiesterase (PDE) inhibitor, also is a potent inhibitor of ferroptosis in pulmonary epithelial and endothelial cells, binds to and activates superoxide dismutase 1 (SOD1).

DIPY effectively mitigated ferroptosis and pulmonary damage in both mouse models and hAOs, primarily by downregulating heme oxygenase 1 (HMOX1).

DIPY binds to and activates superoxide dismutase 1 (SOD1), which in turn inhibits the CREB1/HMOX1 pathway, thereby suppressing ferroptosis.

## References

Chen X, et al. Theranostics. 2024 Oct 21;14(18):6947-6968.

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

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