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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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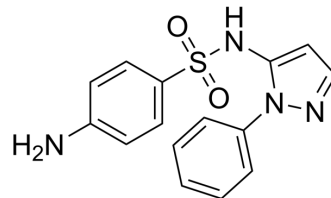
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Sulfaphenazole (Standard)

Cat. No.:	HY-B1218R
CAS No.:	526-08-9
Molecular Formula:	C ₁₅ H ₁₄ N ₄ O ₂ S
Molecular Weight:	314.36
Target:	Cytochrome P450; Necroptosis; Apoptosis; Antibiotic; Bacterial
Pathway:	Metabolic Enzyme/Protease; Apoptosis; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Sulfaphenazole (Standard) is the analytical standard of Sulfaphenazole. This product is intended for research and analytical applications. Sulfaphenazole is a selective inhibitor of human cytochrome P450 (CYP) 2C9 enzyme. Sulfaphenazole is a cytoprotective agent against light-induced death of photoreceptors. Sulfaphenazole inhibits light-induced necrosis and mitochondrial stress-initiated apoptosis. Sulfaphenazole is an off patent sulfonamide antibiotic and demonstrates bactericidal activity through enhanced M1 macrophage activity. Sulfaphenazole can significantly reduce infarct size and restore post-ischemic coronary flow following ischemia and reperfusion^{[1][2][3]}.

REFERENCES

- [1]. Qing Chang, et al. Cytochrome P450 2C9 epoxygenases mediate photochemical stress-induced death of photoreceptors. *J Biol Chem*. 2014 Mar 21;289(12):8337-52.
- [2]. Shahrzad Elmi, et al. Sulfaphenazole treatment restores endothelium-dependent vasodilation in diabetic mice. *Vascul Pharmacol*. 2008 Jan;48(1):1-8.
- [3]. Christopher T Turner, et al. Sulfaphenazole reduces thermal and pressure injury severity through rapid restoration of tissue perfusion. *Sci Rep*. 2022 Jul 23;12(1):12622.

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

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