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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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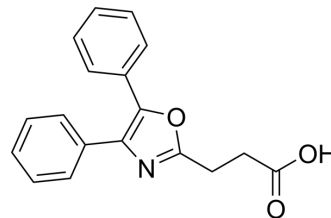
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Oxaprozin (Standard)

Cat. No.:	HY-B0808R
CAS No.:	21256-18-8
Molecular Formula:	C ₁₈ H ₁₅ NO ₃
Molecular Weight:	293.32
Target:	COX; NF-κB; Akt; IKK; Apoptosis
Pathway:	Immunology/Inflammation; NF-κB; PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (340.92 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		3.4092 mL	17.0462 mL	34.0925 mL
	5 mM		0.6818 mL	3.4092 mL	6.8185 mL
	10 mM		0.3409 mL	1.7046 mL	3.4092 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Oxaprozin (Standard) is the analytical standard of Oxaprozin. This product is intended for research and analytical applications. Oxaprozin is an orally active and potent COX inhibitor, with IC₅₀ values of 2.2 μM for human platelet COX-1 and 36 μM for IL-1-stimulated human synovial cell COX-2, respectively. Oxaprozin also inhibits the activation of NF-κB. Oxaprozin induces cell apoptosis. Oxaprozin shows anti-inflammatory activity. Oxaprozin-mediated inhibition of the Akt/IKK/NF-κB pathway contributes to its anti-inflammatory properties^{[1][2]}.

IC₅₀ & Target

IC₅₀: 2.2 μM (COX-1), 36 μM (COX-2) NF-κB^[1]

REFERENCES

[1]. Ottonello L, et al. Delayed apoptosis of human monocytes exposed to immune complexes is reversed by oxaprozin: role of the Akt/IkappaB kinase/nuclear factor kappaB pathway. Br J Pharmacol. 2009 May;157(2):294-306.

[2]. Montecucco F, et al. Oxaprozin-induced apoptosis on CD40 ligand-treated human primary monocytes is associated with the modulation of defined intracellular

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

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