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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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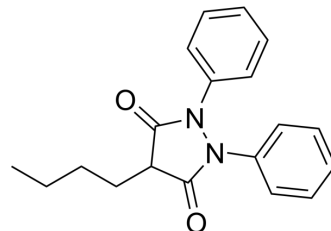
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Phenylbutazone (Standard)

Cat. No.:	HY-B0230R
CAS No.:	50-33-9
Molecular Formula:	C ₁₉ H ₂₀ N ₂ O ₂
Molecular Weight:	308.37
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Phenylbutazone (Standard) is the analytical standard of Phenylbutazone. This product is intended for research and analytical applications. Phenylbutazone is an efficient reducing cofactor for the peroxidase activity of prostaglandin H synthase (PHS). Phenylbutazone, a hepatotoxin, is a nonsteroidal anti-inflammatory agent (NSAID). Phenylbutazone induces muscle blind-like protein 1 (MBNL1) expression and has the potential for ankylosing spondylitis research^{[1][2]}.

REFERENCES

- [1]. Beretta C, et al. COX-1 and COX-2 inhibition in horse blood by phenylbutazone, flunixin, carprofen and meloxicam: an in vitro analysis. *Pharmacol Res.* 2005 Oct;52(4):302-6.
- [2]. G A Reed, et al. Inactivation of prostaglandin H synthase and prostacyclin synthase by phenylbutazone. Requirement for peroxidative metabolism. *Mol Pharmacol.* 1985 Jan;27(1):109-14.
- [3]. Guiying Chen, et al. Phenylbutazone induces expression of MBNL1 and suppresses formation of MBNL1-CUG RNA foci in a mouse model of myotonic dystrophy. *Sci Rep.* 2016 Apr 29;6:25317.

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

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