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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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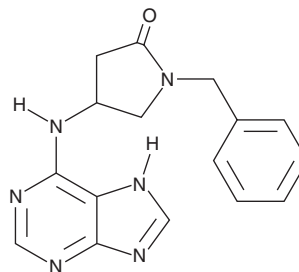
PRODUCT INFORMATION



rac-Benpyrine

Item No. 36680

CAS Registry No.: 1333714-43-4
Formal Name: 1-(phenylmethyl)-4-(9H-purin-6-ylamino)-2-pyrrolidinone
MF: C₁₆H₁₆N₆O
FW: 308.3
Purity: ≥98%
UV/Vis.: λ_{max}: 267 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

rac-Benpyrine is supplied as a solid. A stock solution may be made by dissolving the *rac*-benpyrine in the solvent of choice, which should be purged with an inert gas. *rac*-Benpyrine is soluble in the organic solvent dimethyl formamide at a concentration of approximately 1 mg/ml.

Description

rac-Benpyrine is an inhibitor of the protein-protein interaction between TNF-α and TNF receptor 1 (TNFR1; IC₅₀ = 0.109 μM).¹ It reduces TNF-α-induced cytotoxicity in L-929 fibroblasts when used at a concentration of 10 μM, as well as prevents nuclear translocation of NF-κB in RAW 264.7 macrophages. *rac*-Benpyrine (25 mg/kg) improves survival in a mouse model of LPS-induced endotoxemia and decreases disease severity in mouse models of collagen-induced arthritis and imiquimod-induced psoriasis.

Reference

1. Sun, W., Wu, Y., Zheng, M., *et al.* Discovery of an orally active small-molecule tumor necrosis factor-α inhibitor. *J. Med. Chem.* **63**(15), 8146-8156 (2020).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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