



SZABO SCANDIC

Part of Europa Biosite

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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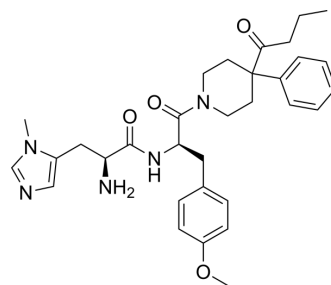
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BMS-470539

Cat. No.:	HY-15616
CAS No.:	457893-92-4
Molecular Formula:	C ₃₂ H ₄₁ N ₅ O ₄
Molecular Weight:	559.7
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

BMS-470539 is a synthetic MC-1R agonist with potent anti-inflammatory properties. BMS-470539 selectively activates human and murine MC-1R with EC₅₀ values of 16.8 nM and 11.6 nM, respectively. In vitro studies have shown that BMS-470539 is able to dose-dependently inhibit TNF- α -induced NF- κ B activation in human melanoma cells expressing MC-1R. In vivo, subcutaneous injection of BMS-470539 into BALB/c mice effectively inhibited LPS-induced TNF- α production with an ED₅₀ of approximately 10 μ mol/kg and a pharmacodynamic half-life of approximately 8 hours. It also significantly reduced leukocyte infiltration in a lung inflammation model and attenuated paw swelling in a delayed-type hypersensitivity model, highlighting its efficacy as an anti-inflammatory agent through MC-1R modulation^[1].

REFERENCES

[1]. A selective small molecule agonist of the melanocortin-1 receptor inhibits lipopolysaccharide-induced cytokine accumulation and leukocyte infiltration in mice

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

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