



SZABO SCANDIC

Part of Europa Biosite

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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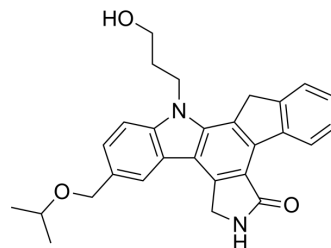
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CEP-5214

Cat. No.:	HY-15334
CAS No.:	402857-39-0
Molecular Formula:	C ₂₈ H ₂₈ N ₂ O ₃
Molecular Weight:	440.53
Target:	VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

CEP-5214, derived from a new indenopyrrolocarbazole template, is a potent inhibitor of vascular endothelial growth factor R2 (VEGF-R2) tyrosine kinase. Structurally, it features optimal substitutions at positions 9 (ethoxymethyl) and 12 (hydroxypropyl) on the indeno[2,1-a]pyrrolo[3,4-c]carbazole-5-one scaffold, leading to high potency against VEGF-R2 (IC₅₀ 8 nM). Compound 21 (CEP-5214) exhibits low-nanomolar inhibition of human VEGF-R tyrosine kinases (IC₅₀ 4 nM for VEGF-R2/KDR), with good selectivity over other kinases. The compound demonstrated significant cellular and in vivo antitumor activity across various models and advanced into phase I clinical trials as a water-soluble prodrug (CEP-7055) to enhance oral bioavailability^[1].

REFERENCES

[1]. A New Class of Potent Vascular Endothelial Growth Factor Receptor Tyrosine Kinase Inhibitors: Structure-Activity Relationships for a Series of 9-Alkoxyethyl-12-(3-hydroxypropyl)indeno[2,1-a]pyrrolo[3,4-c]carbazole-5-ones and the Identification of CEP-5214 and Its Dimethylglycine Ester Prodrug Clinical Candidate CEP-7055

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

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