



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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

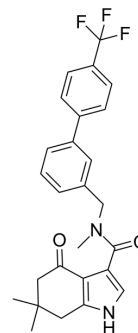
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TGFβRII-IN-3

Cat. No.:	HY-161398
Molecular Formula:	C ₂₆ H ₂₅ F ₃ N ₂ O ₂
Molecular Weight:	454.48
Target:	TGF-β Receptor; TGF-beta/Smad
Pathway:	TGF-beta/Smad; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TGFβRII-IN-3 (Compound 2r) is a selective inhibitor of the TGFβ type II receptor (TGFβ RII) (IC ₅₀ = 4.1 μM). TGFβRII-IN-3 inhibits TGFβ signaling by promoting the proteolytic degradation of TGFβ RII. TGFβRII-IN-3 can block endothelial-to-mesenchymal transition and cell migration. TGFβRII-IN-3 can be used in cancer research ^[1] .								
IC₅₀ & Target	TGF-βR2 4.1 μM (IC ₅₀)								
In Vitro	<p>TGFβRII-IN-3 (5-15 μM; 24 h) inhibits the activity of the TGFβ signaling pathway by reducing the phosphorylation levels of Smad2 in A549 cells and demonstrates selective degradation of TGFβ RII^[1].</p> <p>TGFβRII-IN-3 (2.5-10 μM; 48 h) effectively inhibits the loss of E-cadherin induced by TGFβ1, while suppressing the upregulation of Snail and N-cadherin^[1].</p> <p>TGFβRII-IN-3 (5 μM; 48h) inhibits cell migration and morphological changes by suppressing TGFβ signaling in A549 and H1299 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549 cell</td> </tr> <tr> <td>Concentration:</td> <td>5;10;15 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24h</td> </tr> <tr> <td>Result:</td> <td>Significantly and dose-dependently inhibited TGFβ1-induced phosphorylation of Smad2 in A549 cells. Significantly reduced the steady-state levels of TβRII in a dose-dependent manner. At the same time, the levels of TGFβ type I receptor were not significantly affected.</td> </tr> </table>	Cell Line:	A549 cell	Concentration:	5;10;15 μM	Incubation Time:	24h	Result:	Significantly and dose-dependently inhibited TGFβ1-induced phosphorylation of Smad2 in A549 cells. Significantly reduced the steady-state levels of TβRII in a dose-dependent manner. At the same time, the levels of TGFβ type I receptor were not significantly affected.
Cell Line:	A549 cell								
Concentration:	5;10;15 μM								
Incubation Time:	24h								
Result:	Significantly and dose-dependently inhibited TGFβ1-induced phosphorylation of Smad2 in A549 cells. Significantly reduced the steady-state levels of TβRII in a dose-dependent manner. At the same time, the levels of TGFβ type I receptor were not significantly affected.								

REFERENCES

[1]. Längle D, et al. Expanding the Chemical Space of Transforming Growth Factor-β (TGFβ) Receptor Type II Degradors with 3,4-Disubstituted Indole Derivatives. ACS Pharmacol Transl Sci. 2024 Mar 21;7(4):1069-1085.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA