



SZABO SCANDIC

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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

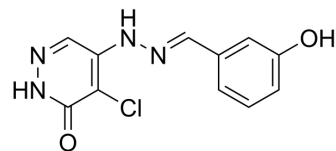
mail@szabo-scandic.com

www.szabo-scandic.com

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

L82-G17

Cat. No.:	HY-148161
CAS No.:	92285-87-5
Molecular Formula:	C ₁₁ H ₉ ClN ₄ O ₂
Molecular Weight:	264.67
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (472.29 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.7783 mL	18.8914 mL	37.7829 mL
	5 mM		0.7557 mL	3.7783 mL	7.5566 mL
	10 mM		0.3778 mL	1.8891 mL	3.7783 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L82-G17 is an uncompetitive DNA ligase I (Lig I)-selective inhibitor. L82-G17 inhibits the third step of the ligation reaction, phosphodiester bond formation. L82-G17 can be used as a probe of the catalytic activity^[1].

In Vitro

L82-G17 (200 μM, 30 min) has selective uncompetitive inhibitory effect for LigI^[1].
 L82-G17 (0-100 μM) increases LigI binding to non-ligatable nicked DNA binding^[1].
 L82-G17 inhibits step 3 of the ligation reaction, phosphodiester bond formation^[1].
 L82-G17 (0-100 μM) inhibits DNA synthesis, cell viability and induces DNA damage^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Viability Assay^[1]

Cell Line:	HeLa cells
Concentration:	0-30 μM
Incubation Time:	5 days

Result:	Reduced cell number by about 70% at 20 μ M.
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Cell Proliferation Assay ^[1]

Cell Line:	CH12F3 WT and CH12F3 Δ / Δ cells
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Concentration:	0-100 μ M
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Incubation Time:	72 h
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Result:	Had great effect on the proliferation and survival of the parental CH12F3 cells.
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REFERENCES

[1]. Timothy R L Howes, et al. Structure-activity relationships among DNA ligase inhibitors: Characterization of a selective uncompetitive DNA ligase I inhibitor. DNA Repair (Amst). 2017 Dec;60:29-39.

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