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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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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

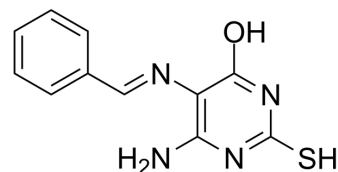
mail@szabo-scandic.com

www.szabo-scandic.com

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

L189

Cat. No.:	HY-15588		
CAS No.:	64232-83-3		
Molecular Formula:	C ₁₁ H ₁₀ N ₄ OS		
Molecular Weight:	246.29		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33 mg/mL (133.99 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.0603 mL	20.3013 mL	40.6025 mL
5 mM	0.8121 mL	4.0603 mL	8.1205 mL
10 mM	0.4060 mL	2.0301 mL	4.0603 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L189 is a DNA ligase inhibitor. L189 has inhibition effect for DNA Ligase I, III and IV with IC₅₀ values of 5 μM, 9 μM and 5 μM, respectively. L189 has no cytotoxicity and individually increase cell death. L189 can be used for the research of cancer^{[1][2]}.

In Vitro

L189 inhibits DNA Ligase I, III and IV activity with IC₅₀ values of 5 μM, 9 μM and 5 μM, respectively^[1].
 L189 (5 μM, 48 h) bring good anti-proliferation activity preferentially and cause cell death by creating a cytotoxic environment^[2].
 L189 (5 μM, 48 h) reduces HeLa nuclear staining along with TMZ^[2].
 L189 (5 μM, 48 h) enhances TMZ-induced HeLa growth arrest when along with TMZ that possibly in G2/M cell cycle phase without employing cell death mechanisms^[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Cytotoxicity Assay^[1]

Cell Line:	HeLa cells
Concentration:	5 μ M
Incubation Time:	48 h
Result:	Blocked to HeLa growth and proliferation along with TMZ and not mark the significant cell cytotoxicity alone.

CUSTOMER VALIDATION

- Nat Methods. 2023 Jul 20.
- Mol Cell. 2021 Aug 5;81(15):3128-3144.e7.
- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Devashree Jahagirdar, et al. Combinatorial Use of DNA Ligase Inhibitor L189 and Temozolomide Potentiates Cell Growth Arrest in HeLa. Current Cancer Therapy Reviews, 2018, 14, 1-11.
- [2]. Xi Chen, Shijun Zhong, Xiao Zhu, et al. Rational Design of Human DNA Ligase Inhibitors that Target Cellular DNA Replication and Repair. Cancer Res 2008; 68: (9). May 1, 2008

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