



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

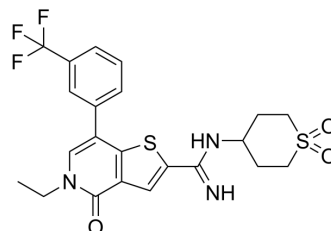
mail@szabo-scandic.com

www.szabo-scandic.com

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

I-BRD9

Cat. No.:	HY-18975
CAS No.:	1714146-59-4
Molecular Formula:	C ₂₂ H ₂₂ F ₃ N ₃ O ₃ S ₂
Molecular Weight:	497.55
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
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 : 13.89 mg/mL (27.92 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.0098 mL	10.0492 mL	20.0985 mL
		5 mM		0.4020 mL	2.0098 mL	4.0197 mL
		10 mM		0.2010 mL	1.0049 mL	2.0098 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: ≥ 1.39 mg/mL (2.79 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.39 mg/mL (2.79 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 1.39 mg/mL (2.79 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	I-BRD9 is a selective cellular chemical probe of bromodomain-containing protein 9 (BRD9) with pIC ₅₀ value of 7.3 μM. I-BRD9 has high selectivity for bromodomain and extra terminal domain (BET) family and highly homologous bromodomain-containing protein 7 (BRD7). I-BRD9 can be used to identify genes regulated by BRD9 in Kasumi-1 cells involved in oncology and immune response pathways ^[1] .
In Vitro	I-BRD9 (10 μM, 6 h) has a regulation role in cancer and immunology pathways ^[1] . I-BRD9 (10 μM) has high BRD9 affinity and excellent broader bromodomain selectivity ^[1] .

I-BRD9 (10 μ M) has affinity for BRD9 (TR-FRET), BRD4 BD1 (TR-FRET) and BRD9 NanoBRET with pIC₅₀ values of 7.3 μ M, 5.3 μ M and 6.8 μ M^[1].
I-BRD9 (10 μ M) has high aqueous solubility (CLND) with 359 μ M^[1].
I-BRD9 (10 μ M) displays >625 fold selectivity in binding with endogenous BRD9 against BET family member BRD3 in HUT-78 cell lysate^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
RT-PCR^[1]

Cell Line:	Kasumi-1 cells
Concentration:	10 μ M
Incubation Time:	6 h
Result:	Showed 4 genes (CLEC1, 62 DUSP6, 63 FES64 and SAMSN165) that were strongly down-regulated and not by I-BET151.

CUSTOMER VALIDATION

- Nat Commun. 2023 Dec 1;14(1):7762.
- Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2961-2966.
- Mol Carcinog. 2023 May 5.
- bioRxiv. 2023 Apr 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Natalie H Theodoulou, et al. Discovery of I-BRD9, a Selective Cell Active Chemical Probe for Bromodomain Containing Protein 9 Inhibition. J Med Chem

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