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Produktinformation



Forschungsprodukte & Biochemikalien



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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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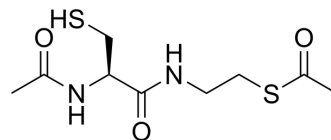
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I-152

Cat. No.:	HY-153340		
CAS No.:	311343-11-0		
Molecular Formula:	$C_9H_{16}N_2O_3S_2$		
Molecular Weight:	264.36		
Target:	Keap1-Nrf2		
Pathway:	NF-κB		
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 : 100 mg/mL (378.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.7827 mL	18.9136 mL	37.8272 mL
		5 mM	0.7565 mL	3.7827 mL	7.5654 mL
		10 mM	0.3783 mL	1.8914 mL	3.7827 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 (9.46 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.46 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (9.46 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	I-152 is a conjugate containing N-acetyl-cysteine (NAC) and cysteamine (MEA). I-152 activates NRF2 and ATF4 signals. I-152 has anti-proliferative properties ^[1] .
In Vitro	I-152 (1 mM; 1 h or 2 h) reduces the NRF2 mRNA level in RAW 264.7 cells^[1]. I-152 (1 mM; 0-60 min) reduces the level of NRF2 and p53, increases the expression of ATF4 in RAW 264.7 cells^[1]. I-152 (0.062, 0.125, 0.25 or 1 mM) increases the level of Gclc mRNA (6 h or 24 h), Chac1 mRNA (6 h or 24 h) and Chop mRNA (6 h) in RAW 264.7 cells^[1].

I-152 (0.062, 0.125, 0.25 or 1 mM; 2 h) increases the level of GSH in RAW 264.7 cells^[1].
I-152 (1 mM; 1, 2, 6 and 24 h) activates ATF4 mRNA expression in RAW 264.7 cells^[1].
I-152 (1 mM; 24 h and 48 h) exhibits cytotoxic and growth inhibitory effects on RAW 264.7 cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Western Blot Analysis^[1]

Cell Line:	RAW 264.7 cells.
Concentration:	0.062, 0.125, 0.25, 1, 5 or 10 mM.
Incubation Time:	2 h or 24 h.
Result:	Reduced the expression of NRF2/ β -ACTIN, increased the expression of GCLM.

REFERENCES

[1]. Crinelli R, et al. Activation of NRF2 and ATF4 Signaling by the Pro-Glutathione Molecule I-152, a Co-Drug of N-Acetyl-Cysteine and Cysteamine. Antioxidants (Basel). 2021 Jan 26;10(2):175.

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

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