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Product Data Sheet

Tricin 7-O-β-D-glucopyranoside

Cat. No.:	HY-N9587	
CAS No.:	32769-01-0	
Molecular Formula:	C ₂₃ H ₂₄ O ₁₂	
Molecular Weight:	492.43	HO
Target:	Apoptosis	ОН
Pathway:	Apoptosis	Ó
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Description	Tricin 7-O-β-D-glucopyranos <u>Apoptosis</u> . Tricin 7-O-β-D-glu HMGB1 ^[1] .	side is a potent and orally active neuroprotective agent. Tricin 7-O-β-D-glucopyranoside induces ucopyranoside decreases the expression of TNF-α induced phosphor-κB-α, phosphor-NF-κB,
In Vitro	Tricin 7-O-β-D-glucopyranoside (4-64 μM; 12 h) induces apoptosis in a dose-dependent manner after oxygen-glucose deprivation for 3 h followed by 12 h incubation in SH-SY5Y cells ^[1] . Tricin 7-O-β-D-glucopyranoside (16, 32 μM; 12 h) decreases the expression of TNF-α (20 ng/ml for 30 min) induced phosphor- κB-α, phosphor-NF-κB, HMGB1 in SH-SY5Y cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis ^[1]	
	Cell Line:	SH-SY5Y cells
	Concentration:	2, 4, 8, 16, 32, 64 μM
	Incubation Time:	12 h
	Result:	Induced cell apoptosis after oxygen-glucose deprivation for 3 h followed by 12 h incubation with neurobasal medium with the apoptosis rate of 35.6%.
	Western Blot Analysis ^[1]	
	Cell Line:	SH-SY5Y cells
	Concentration:	16, 32 μM
	Incubation Time:	12 h
	Result:	Blocked TNF- α (20 ng/ml for 30 min) induced I κ B- α and NF- κ B phosphorylation, and reduced HMGB1 expression.
In Vivo	Tricin 7-O-β-D-glucopyranos reperfusion (I/R) ^[1] . MCE has not independently	side (50, 100, 200 and 400 mg/kg; p.o.) shows neuroprotective potential in rats with ischemia and confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male Sprague-Dawley rats ^[1]
Dosage:	50, 100, 200 and 400 mg/kg
Administration:	Р.о.
Result:	Decreased neurological deficit scores, reduced brain infarct volume and brain water content, inhibited NF-κB activation and reduced HMGB1 expression.

REFERENCES

[1]. Jiang WL, et al. Tricin 7-glucoside protects against experimental cerebral ischemia by reduction of NF-κB and HMGB1 expression. Eur J Pharm Sci. 2012 Jan 23;45(1-2):50-7.

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

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