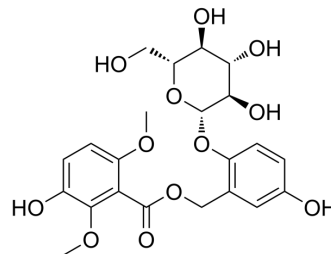


## Curculigoside C

<b>Cat. No.:</b>	HY-N9095
<b>CAS No.:</b>	851713-74-1
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>26</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	482.43
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Curculigoside C is a phenolic glucoside with potent antioxidative and neuroprotective activities. Curculigoside C shows IC <sub>50</sub> values of 0.25 mM and 0.88 mM for hydroxyl radicals and superoxide anion radicals, respectively <sup>[1]</sup> .						
<b>In Vitro</b>	Curculigoside C displays neuroprotective effect in the evaluation of salvaging SY5Y cell death induced by H <sub>2</sub> O <sub>2</sub> <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
<b>In Vivo</b>	Curculigoside C (15, 30 and 60 mg/kg) exhibits rapid oral absorption (T <sub>max</sub> = 0.106 h, 0.111 h, and 0.111 h, respectively), high elimination (t <sub>1/2</sub> = 2.022 h, 2.061 h, and 2.048 h, respectively) and low absolute bioavailability (2.01%, 2.13%, and 2.39%, respectively) <sup>[2]</sup> . Pharmacokinetic parameters of CC in rat plasma after intragastric administration <sup>[1]</sup> .						
	Dose (mg/kg)	t <sub>1/2</sub> (h)	AUC <sub>0-60</sub> (μg/L/h)	AUC <sub>0-∞</sub> (μg/L/h)	F (%)	Vd (L/kg)	CL <sub>Z</sub> (L/h/kg)
	15	2.022 ± 0.184	0.106 ± 0.149	62.731 ± 10.149	66.310 ± 10.563	2.01	673.157 ± 116.509
	30	2.061 ± 0.325	0.111 ± 0.043	133.17 ± 48.434	140.656 ± 48.335	2.13	722.605 ± 316.306
	60	2.048 ± 0.227	0.111 ± 0.043	299.155 ± 80.954	316.980 ± 91.704	2.39	585.344 ± 124.289
	2.0 (i.v)	1.153 ± 0.203	-	416.700 ± 70.401	420.700 ± 70.690	-	8.122 ± 1.973
							4.869 ± 0.834
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.						

### REFERENCES

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[1]. Wu Q, et al. Antioxidative phenols and phenolic glycosides from *Curculigo orchioides*. *Chem Pharm Bull (Tokyo)*. 2005 Aug;53(8):1065-7.

[2]. Di Wu, et al. Pharmacokinetic and Metabolism Studies of Curculigoside C by UPLC-MS/MS and UPLC-QTOF-MS. *Molecules*. 2018 Dec 21;24(1):21.

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

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