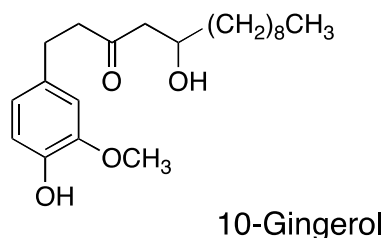


10-Gingerol



【化合物】 10-Gingerol

【測定機器】 HPLC

【対象】 動物（ヒト）

【代謝実験】 被験者に Pure Encapsulation's ginger を投与した後、経時的に血清中の gingerol および shogaol 化合物濃度を HPLC で分析した。[Zick et al., *Cancer Epidemiol Biomarkers Prev.* **17**: 1930–1936 (2008)]

【代謝パラメータ】

Pharmacokinetic parameters of 10-gingerol and other related compounds

	1000 mg (N=6)	1500 mg (N=3)	2000 mg (N=8)
AUC (μ g/L)	2.9 ± 3.2	7.7 ± 5.3	50.1 ± 49.3
$C_{\max}$ (μ g/L)	0.1 ± 0.1	0.1 ± 0.02	0.53 ± 0.4
$t_{1/2}$ min			128.7 ± 38.8
$t_{\max}$ min	60.0 ± 0.0	80.0 ± 34.6	75.0 ± 27.8

Mean $\pm$ SD

Pharmacokinetic parameters of 6-shogaol and other related compounds

	1000 mg (N=6)	1500 mg (N=3)	2000 mg (N=8)
AUC (μ g/L)	0.8 ± 1.5	1.6 ± 2.8	10.9 ± 13.0
$C_{\max}$ (μ g/L)	0.1 ± 0.1	0.04 ± 0.08	0.15 ± 0.12
$t_{1/2}$ min			120.4 ± 42.0
$t_{\max}$ min	55.0 ± 8.7	60.0 ± 0.0	65.6 ± 22.6

Mean $\pm$ SD

Pharmacokinetic parameters of 6-gingerol and other related compounds

	1000 mg (N=6)	1500 mg (N=3)	2000 mg (N=8)
AUC (μ g/L)	12.6 ± 6.4	75.6 ± 110.3	65.6 ± 44.4
$C_{\max}$ (μ g/L)	0.4 ± 0.2	1.69 ± 2.31	0.85 ± 0.43
$t_{1/2}$ min			110.0 ± 34.9
$t_{\max}$ min	55.0 ± 7.7	60.0 ± 0.0	65.6 ± 22.6

Mean $\pm$ SD

Pharmacokinetic parameters of 8-gingerol and other related compounds

	1000 mg (N=6)	1500 mg (N=3)	2000 mg (N=8)
AUC (μ g/L)	2.1 ± 2.2	2.6 ± 2.0	18.1 ± 20.3
$C_{\max}$ (μ g/L)	0.1 ± 0.1	0.1 ± 0.1	0.23 ± 0.16
$t_{1/2}$ min			113.5 ± 41.1
$t_{\max}$ min	52.5 ± 8.7	60.0 ± 0.0	73.1 ± 29.4

Mean $\pm$ SD

[Zick et al., *Cancer Epidemiol Biomarkers Prev.* **17**: 1930–1936 (2008)]

【参考文献】

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