CZL80

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-131204 313482-91-6 C ₁₉ H ₁₄ N ₂ O ₄ S 366.39 Caspase Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	С S H C H H C H C H C H C H C H C H C H C
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aspase-1 inhibitor with an IC $_{50}$ of 0.01 $\mu M,$ could be used in the study of febrile seizures and later sceptibility $^{[1]}.$	
aspase-1 inhibitor with an IC $_{50}$ of 0.01 μM , could be used in the study of febrile seizures and later sceptibility $^{[1]}.$	
Caspase-1 0.01 µM (IC ₅₀)	
CZL80 (7.5 mg/kg, i.v., qod) markedly reduces neuronal excitability and incidence of FS generation, and, in adult mice, relieved later enhanced epileptogenic susceptibility ^[1] . CZL80 delayed-administration is a competent to attenuate the progressive neurological dysfunction induced by photothrombosis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
Male C57BL/6 mice and Caspase-1 gene knockout (Caspase- $1^{-/-}$) mice weighing 23-26 g (9-10 weeks old) ^[2] .	
10, 30 mg/kg/d, 7 days.	
i.p.	
Rescued motor dysfunction after photothrombotic stroke in mice.	
Mice pups of caspase-1 knockout (Casp1 ^{-/-} , RRID:IMSR_JAX:004947) and littermate controls (wild-type [WT], Casp1 ^{+/+}) ^[1] .	
0.0075, 0.075, 0.75 and 7.5 mg/kg (2% DMSO in saline), qod (every other day).	
Intravenously injected.	
Reduced seizure incidence, prolonged seizure latency and increased threshold to FS generation in a dose-dependent manner.	

REFERENCES

[1]. Yangshun Tang, et al. Structure-based discovery of CZL80, a caspase-1 inhibitor with therapeutic potential for febrile seizures and later enhanced epileptogenic susceptibility. Br J Pharmacol. 2020 Aug;177(15):3519-3534.

[2]. Ling Pan, et al. Novel Caspase-1 inhibitor CZL80 improves neurological function in mice after progressive ischemic stroke within a long therapeutic time-window. Acta Pharmacol Sin. 2022 Nov;43(11):2817-2827.

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

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