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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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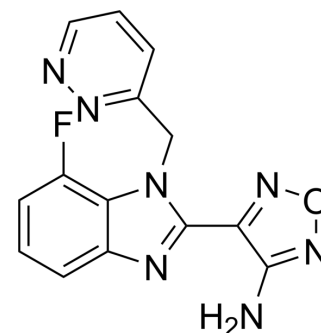
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CVN293

Cat. No.:	HY-158155
CAS No.:	2815296-08-1
Molecular Formula:	C ₁₄ H ₁₀ FN ₇ O
Molecular Weight:	311.27
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CVN293 is a selective and brain permeable potassium ion (K ⁺) channel KCNK13 inhibitor with IC ₅₀ s of 41 nM and 28 nM for hKCNK13 and mKCNK13, respectively. CVN293 potently inhibits the NLRP3-inflammasome mediated production of the proinflammatory cytokine IL-1β in microglia ^[1] .					
IC₅₀ & Target	hKCNK13 41 nM (IC ₅₀)	mKCNK13 28 nM (IC ₅₀)	hKCNK6 >30000 nM (IC ₅₀)	hKCNK2 >30000 nM (IC ₅₀)		
In Vitro	CVN293 (0.05, 0.5, 5 μM) demonstrates a concentration-dependent inhibition of the NLRP3-inflammasome mediated production of IL-1β from LPS-primed murine microglia ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
In Vivo	Pharmacokinetic Parameters of CVN293 in male Sprague-Dawley rat, dog and cynomolgus monkey ^[1] .					
	IV (0.5 mg/kg; rat)	PO (3 mg/kg; rat)	IV (1 mg/kg; dog)	PO (10 mg/kg; dog)	IV (1 mg/kg; cynomolgus monkey)	PO (3 mg/kg; cynomolgus monkey)
T _{max} (h)		1.0		1.25		1.0
C _{max} (ng/mL)		468		241		165
AUC _{0-∞} (ng•h/mL)	222	1236	438	630	782	546
t _{1/2} (h)	1.0	2.0	0.5	2.6	1.1	1.9
CLp (mL/min/kg)	35		38		22	
V _{ss} (L/kg)	1.85		1.42		1.45	

F (%)	87	41	24
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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Roland W. Bürli, et al. Discovery of CVN293, a Brain Permeable KCNK13 (THIK-1) Inhibitor Suitable for Clinical Assessment. ACS Med. Chem. Lett. 2024.

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

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