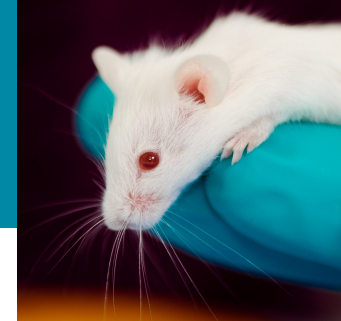


ALZET RESEARCH SUMMARY — CNS (Rat)



ALZET® Osmotic Pumps are a reliable, convenient and cost effective method for continuous dosing of unrestrained laboratory animals, including mice and young rats. These small, implantable pumps are an effective tool for continuous administration to CNS targets. In fact, the ALZET bibliography contains over **2778 publications** on this research application. The table below summarizes examples of recent research using ALZET pumps for CNS infusion to rats. For additional references, please contact ALZET Technical Services.

Agent	Vehicle	Duration	Pump Model	Target	Citation
Fractalkine	CSF, artificial	5 days	2002	Intrathecal	K. Sessler <i>et al.</i> J Neurophysiol. 2021;125(5):1598-1611
Tetrodotoxin	PBS	28 days	2004	Somatosensory Cortex	J. T. Le <i>et al.</i> Epilepsy Behav. 2021;116:107786
Vascular endothelial growth factor, DNA	Glucose	1 week	2001	Medula	O. Gawrys <i>et al.</i> Biochem Genet. 2021;59(1):62-82
Ropivacaine	Saline	7 days	2ML1	Sciatic Nerve	W. Zhong <i>et al.</i> Neurosci Lett. 2020;716:134643
Methionine sulfoximine	PBS	2 weeks	2004	Entorhinal Cortex	M. R. S. Sandhu <i>et al.</i> Front Neurol. 2020;11:398
BT13; Glial cell line-derived neurotrophic factor	PBS; Propylene Glycol	7 days	2002	Dorsal Striatum	J. M. Renko <i>et al.</i> Front Neurol Neurosci Res. 2020;1:100004
Amyloid protein, β (1-40)	Saline	4 weeks	2004	Parenchyma	J. C. Palmer <i>et al.</i> J Alzheimers Dis. 2020;73(3):1185-1199
MK801; TrkB-Fc	Saline	11 days	2ML4	Intrathecal	J. Li <i>et al.</i> Neurotherapeutics. 2020;17(3):1016-1030
Hydroxybutyrate, β -	PBS	21 days	2006	Frontal Cortex	N. Kajitani <i>et al.</i> Neuropsychopharmacol Rep. 2020;40(2):157-165
Losartan	CSF, artificial	4 weeks	1007D	Cistern magna	Y. M. Chao <i>et al.</i> J Biomed Sci. 2020;27(1):68

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