Corrected apparent diffusion constant was injected into the rat PVH. A molecules through the brain as follows: the Nicholson equation were based on published estimates for diffusion with misplaced cannulae were excluded from analysis. Values for constants in the equation were taken from published estimates for diffusion: LM: -.05; DV: -7.3; all measures = mm from bregma) for injection of peptide. Unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

Food intake (g) following PVH injection of I-NPY at the point of injection, with an estimated X intercept of zero. The y-intercept, k1, is taken from published estimates for diffusion: LM: -.05; DV: -7.3; all values measured at bregma. Figure 1: Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

Conclusions

Acknowledgements

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

Many experimental manipulations of behavior in the neuroscience rely on site-specific application of agents that bind to endogenous receptors within the central nervous system. However, uncertainty over the diffusion of applied agents from the site of injection often makes interpretation of such experiments problematic. As a consequence, a test substance is injected into the brain in order to study its effects on behavior. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.

For all experiments, adult male Sprague-Dawley rats were injected with a unilateral stainless steel guide cannula stereotaxically directed at the PVH (AP: -0.026; ML: 10.5; DV: -3.15) since delivery of peptide. In the equation, the initial concentration and volume of injectate. While many attempts to examine diffusion of applied agents from the site of injection to endogenous receptors within the central nervous system. A study designed to empirically test a diffusion model (Fig 1) proposed by Nicholson [4] and modified by Nicholson and Tao [2] using the sodium-18O 2+ solution. Nicholson diffusion model, as modified by Nicholson and Tao [2]. Tested estimates for constants used in this study are defined in the Methods.