Sigma Receptors

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Sigma Receptors, Rae R. Matsumoto, Wayne D. Bowen, Tsung Although originally proposed as a subtype of opioid receptors, the sigma receptor is now confirmed to be a non-opioid receptor that binds diverse classes of drugs, including phencyclidine, cocaine, and morphine. Sigma-1 and sigma-2 receptors are two independent classes of sigma receptors, each with distinct pharmacological profiles. Sigma-1 receptors are found in the brain and peripheral organs, whereas sigma-2 receptors are located mainly in the peripheral nervous system.

Sigma-1 receptors, an endoplasmic reticulum-associated molecular chaperone, are attracting great interest in biology, and cell biology of sigma receptors is gaining momentum. Recent advances in the medicinal chemistry, molecular biology, and cell biology of sigma receptors have provided new insights into their role in various diseases.

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