

# Data Sheet

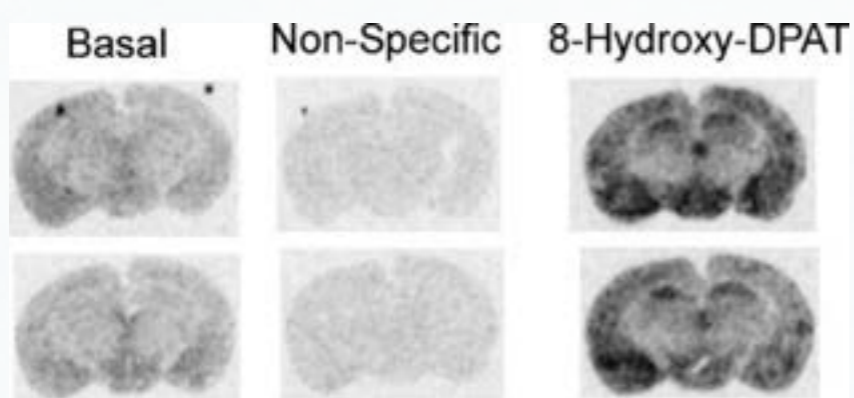
## Autoradiography

### Examples

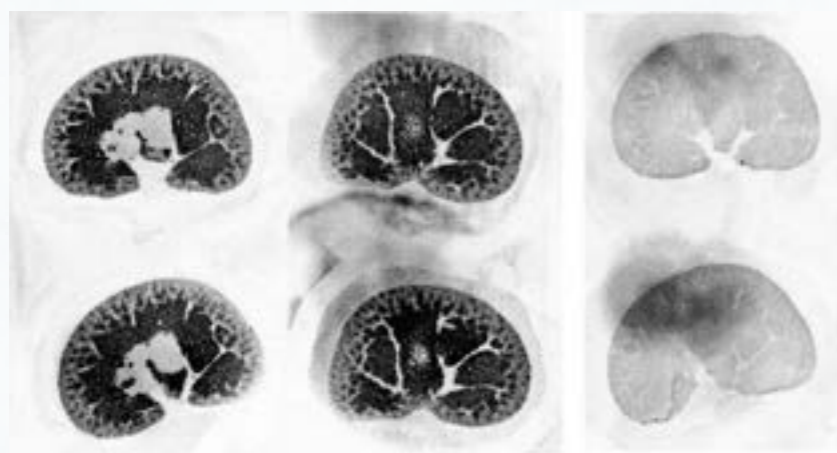
#### IN VITRO RECEPTOR AUTORADIOGRAPHY



*Figure 1: Binding of [<sup>3</sup>H]DAMGO to  $\mu$  opioid receptors in coronal sections at the level of the corpus striatum in a rat brain.*



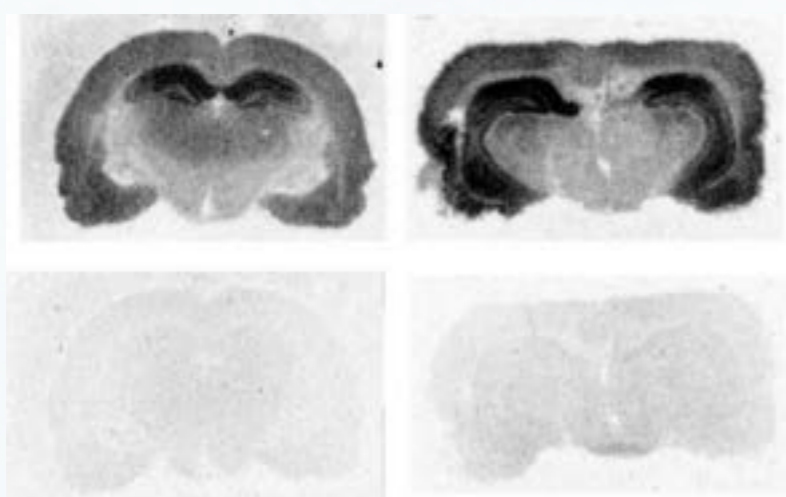
*Figure 2: [<sup>35</sup>S]GTP $\gamma$ S binding in rat brain slices. In the presence of the 5-HT<sub>1a</sub> agonist, 8-hydroxy-DPAT (10  $\mu$ M), [<sup>35</sup>S]GTP $\gamma$ S binding was increased relative to basal levels in the hippocampus, ventral cortex and hypothalamus, reflecting the distribution of agonist-activated receptors. Non-specific [<sup>35</sup>S]GTP $\gamma$ S binding was defined using unlabeled GTP $\gamma$ S (10  $\mu$ M).*



*Figure 3: Binding of [<sup>3</sup>H]LRRK2-IN-1 to the LRRK2 enzyme in rat kidney. Sections on the left are total binding and the two sections on the right non-specific binding, defined using unlabeled LRRK2-IN-1 (10  $\mu$ M).*



*Figure 4: Binding of [<sup>35</sup>S]TBPS to GABA<sub>A</sub> receptors in the dog cerebellum. The two sections on the left are total binding and the two sections on the right non-specific binding, defined using picrotoxin (30  $\mu$ M).*

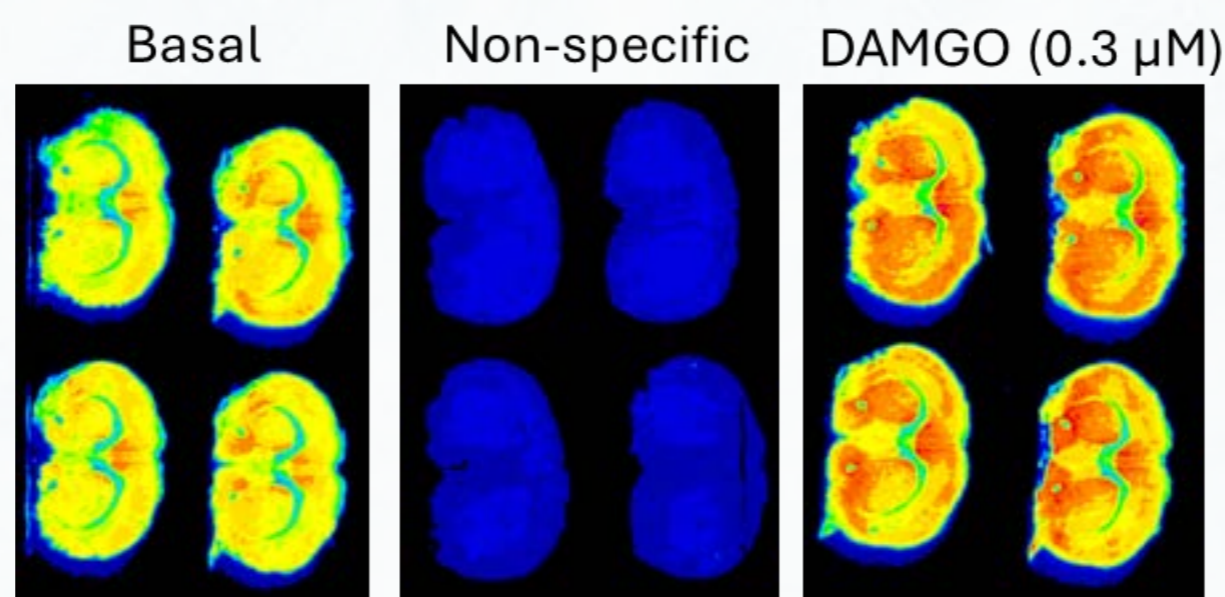


*Figure 5: [<sup>3</sup>H]MK801 binding to NMDA receptors in coronal sections in the rat brain. Upper two sections are total binding and lower two sections non-specific binding, defined using unlabeled MK801 (10  $\mu$ M).*

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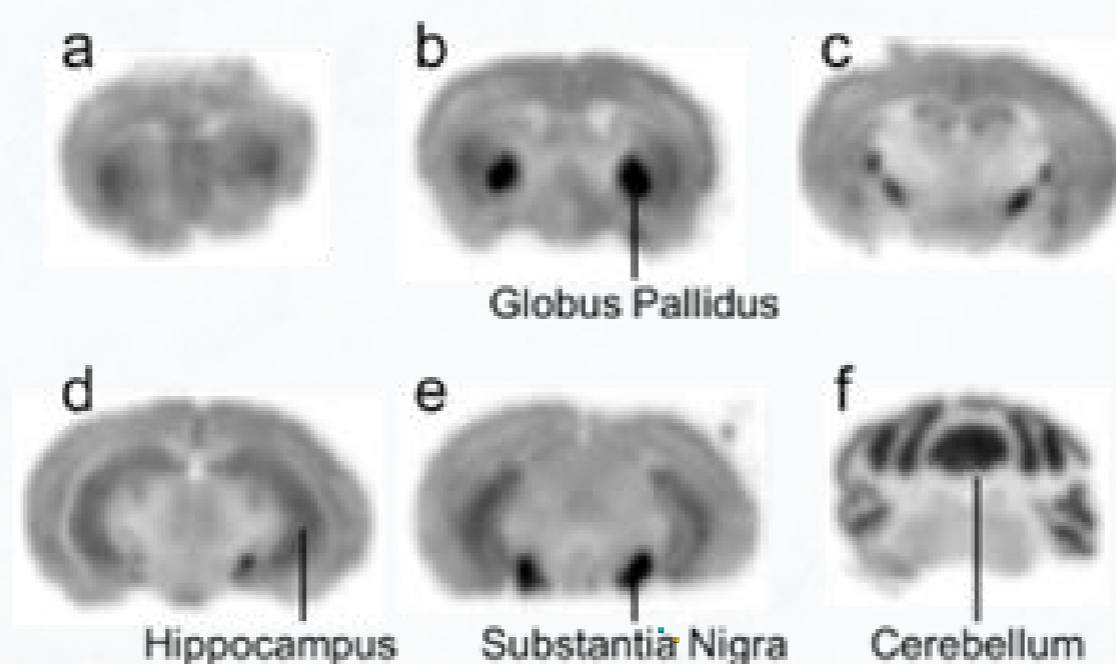
## Autoradiography

### Examples



**Figure 6: [<sup>35</sup>S]GTP $\gamma$ S binding in mouse brain sections.** In the presence of DAMGO (0.3  $\mu$ M), [<sup>35</sup>S]GTP $\gamma$ S binding was increased relative to basal levels, especially in the striatum and nucleus accumbens, due to activation of mu receptors. Non-specific [<sup>35</sup>S]GTP $\gamma$ S binding was defined using unlabeled GTP $\gamma$ S (10  $\mu$ M). Radioactivity levels shown using a color “heat map” scale.

### EX VIVO RECEPTOR AUTORADIOGRAPHY



**Figure 7: Autoradiography in brain from a mouse administered the radioiodinated cannabinoid CB1 receptor radioligand, [<sup>125</sup>I]AM2233.** Sections (coronal) imaged using phosphor imaging. Radioactivity distribution is consistent with selective binding to the CB1 receptor.