

Product Information

Serotonin Transporter Receptor Preparation, Human

Product Number **S 1943**

Product Description

Serotonin Transporter Receptor Preparation, human is a frozen aliquot of membranes from human platelets

Reagent

Serotonin Transporter Receptor Preparation, human membranes are suspended in 50 mM TRIS-HCl containing 120 mM NaCl and 5 mM KCl (pH 7.4 at 25°C).

Procedure

Thaw vials quickly; dilute with incubation buffer; homogenize; store on ice until addition to assay tubes

Incubation buffer:

50 mM TRIS-HCl (pH 7.4 at 25°C) containing 120 mM NaCl and 5 mM KCl

Binding Protocol

Membranes:

Dilute in incubation buffer (0.2 mL of membrane + 20 mL incubation buffer).

Assay mixture:

200 μ l diluted membranes
25 μ l radioligand
25 μ l buffer or unlabeled ligand

Radioligand:

[³H] Citalopram at a final concentration of 1.0 nM for competition studies.

Unlabeled ligand:

Imipramine at a concentration of 1.0 μ M

Incubation time:

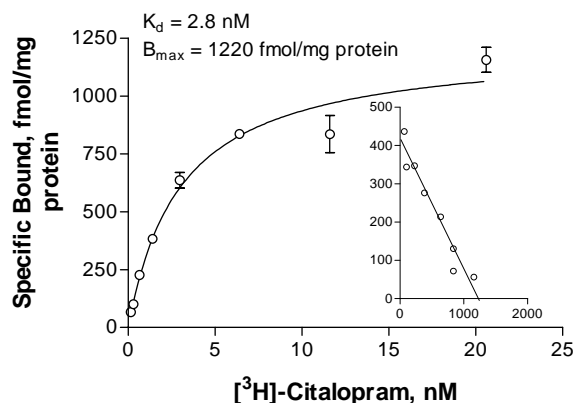
60 minutes at 25°C

Separation:

Over GF/C filter (presoaked in 0.5 % polyethylamine prepared in incubation buffer) then washed 5x with 1ml per tube of ice cold 50 mM NaCl, pH 7.4 at 4 °C.

Results

Typical results using standard binding assay above. Results may vary from lot to lot.



Storage/Stability

Store tightly sealed at -70 °C. The receptor can retain its original specific activity for several months when stored at -70 °C in its original packing solution. Repeated freeze-thaw of this product is not recommended.

Precautions

While no human toxicity data is available for this substance, it should be handled with care. Precautions should be taken to avoid contact by all routes of exposure.

References

1. D'Amato, R.J., et al., *Jrnl. Pharmacol. & Exp. Ther.* **242**, 364-371(1987).
2. Brown, N.L., et al., *Eur. Jrnl. Pharm.* **123**, 161-165 (1986).

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