

## Product Information

### Adenosine Transporter Receptor, human membrane suspension

Catalog Number **A8352**  
Storage Temperature  $-70^{\circ}\text{C}$

Synonym: Nucleoside Transporter 1

#### Product Description

Adenosine Transporter Receptor, human is a frozen aliquot of membranes from U937 human histiocytic lymphoma cells. The membranes are suspended in 50 mM Tris-HCl containing 10% sucrose, pH 7.4.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

Store the product tightly sealed at  $-70^{\circ}\text{C}$ . The receptor remains active for several months when stored at  $-70^{\circ}\text{C}$ .

Repeated freeze-thaw of this product is not recommended.

#### Procedure

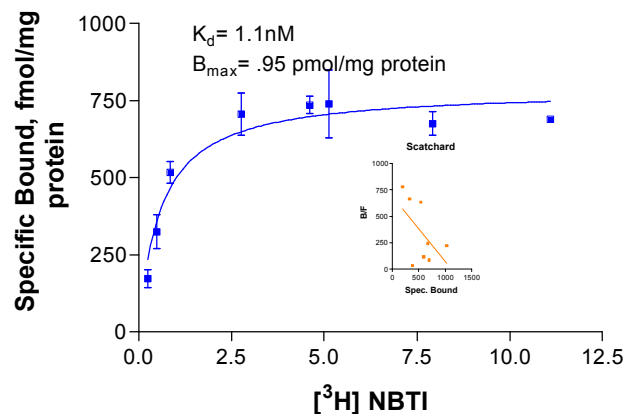
##### Standard Receptor Binding Assay

1. Prepare Assay Buffer – 50 mM Tris-HCl, pH 7.4.
2. Thaw product vial quickly and mix with Assay Buffer. Resuspend 0.2 mL receptor in 20 mL of Assay Buffer. Homogenize and store on ice until addition to assay tubes.
3. Prepare Radioligand Solution – 3 nM [ $^3\text{H}$ ] NBTI.
4. Prepare Unlabeled Ligand Solution – 1.0  $\mu\text{M}$  NBTI.

5. Prepare the assay volume by combining 200  $\mu\text{L}$  of receptor suspension, 25  $\mu\text{L}$  of Radioligand Solution, and 25  $\mu\text{L}$  of Unlabeled Ligand Solution.
6. Incubate for 60 minutes at  $25^{\circ}\text{C}$ .
7. Use GF/B filter presoaked in 0.3 % polyethylamine prepared in incubation buffer.
8. Wash the sample 5 times with 1 mL per tube of ice cold 50 mM NaCl.

#### Results

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



#### References

1. Bailey, A., *et al.*, Brain Res., **943**, 68-79 (2002).

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