

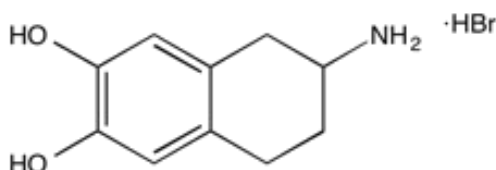
**Catalog # 10-1607**

**6,7-ADTN HBr**

CAS# 13575-86-5

6-Amino-5,6,7,8-tetrahydronaphthalene-2,3-diol hydrobromide (racemic)  
(+/-)-2-Amino-6,7-dihydroxy-1,2,3,4-tetrahydronaphthalene hydrobromide  
NSC-287353

Lot # X105332



A broad spectrum dopamine receptor agonist.<sup>1,2</sup> Demonstrates a marked selectivity for the human dopamine D3 receptor.<sup>3</sup> 6,7-ADTN and psychostimulants such as cocaine and amphetamine reduce excitatory synaptic transmission in the nucleus accumbens by activating presynaptic dopamine receptors.<sup>4</sup>

- 1) List *et al.* (1982), *Striatal binding of 2-amino-6,7-[3H]dihydroxy-1,2,3,4-tetrahydronaphthalene to two dopaminergic sites distinguished by their low and high affinity for neuroleptics*; J. Neurosci., **2** 895
- 2) Templeton *et al.* (1982), *Binding of [3H]ADTN to rat striatal membranes*; Biochem. Pharmacol., **31** 1629
- 3) Freedman *et al.* (1994), *Expression and pharmacological characterization of the human D3 dopamine receptor*; Curr. J. Pharmacol. Exp. Ther., **268** 417
- 4) Nicola *et al.* (1996), *Psychostimulants depress excitatory synaptic transmission in the nucleus accumbens via presynaptic D1-like dopamine receptors*; J. Neurosci., **16** 1591

**PHYSICAL DATA**

Molecular Weight: 260.13  
Molecular Formula: C<sub>10</sub>H<sub>13</sub>NO<sub>2</sub>·HBr  
Purity: 98% by TLC  
NMR: (Conforms)  
Solubility: Water (up to 25 mg/ml)  
Physical Description: Tan solid  
Storage and Stability: Store as supplied at -20°C for up to 1 years from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 1 week.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**