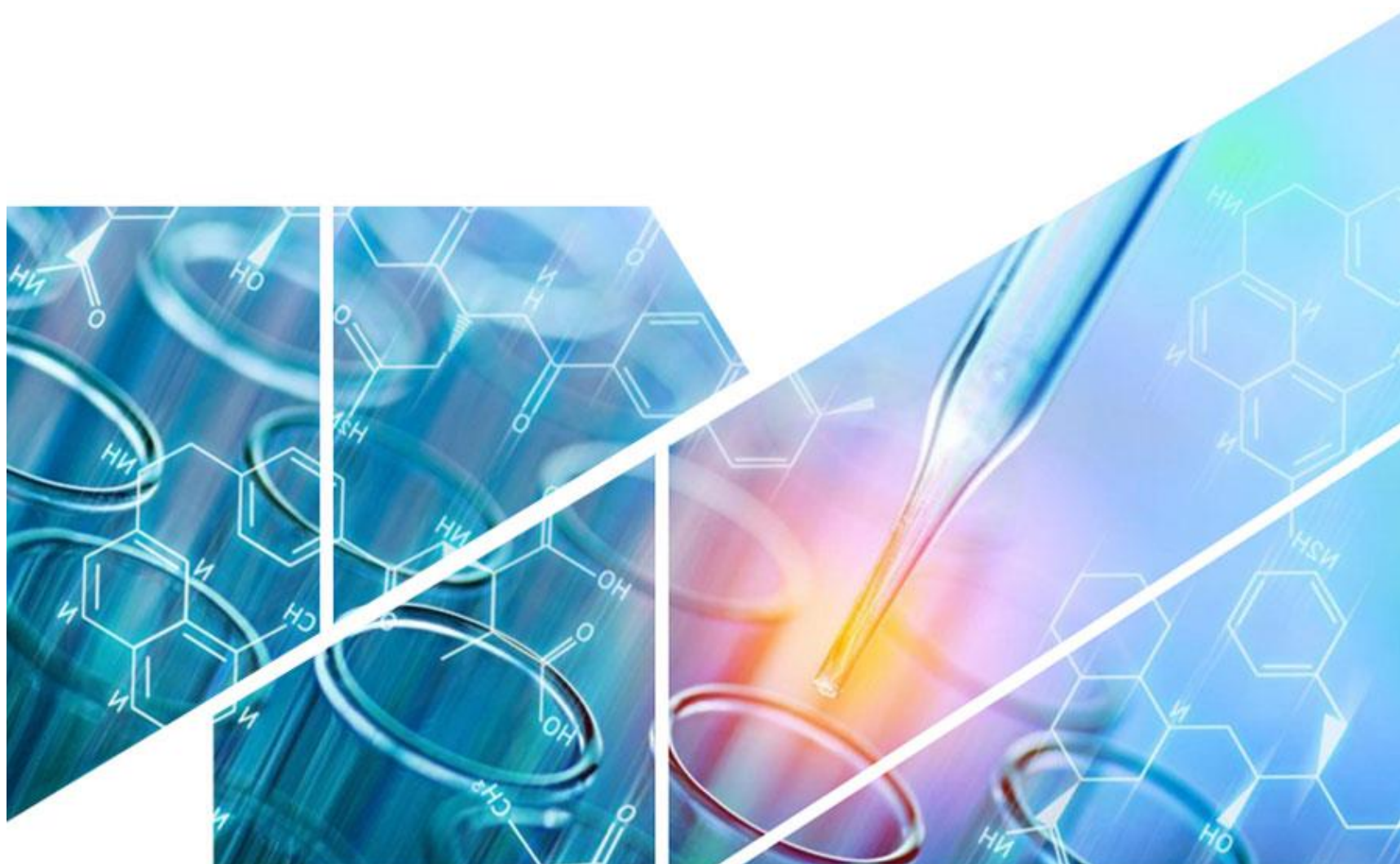


## **Monoamine Oxidase B Inhibitors (inhibitors, agonists and modulators)**



Monoamine oxidase B, also known as MAOB, is an enzyme that in humans is encoded by the MAOB gene. The protein encoded by this gene belongs to the flavin monoamine oxidase family. It is an enzyme located in the outer mitochondrial membrane. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the catabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine. Like MAOA, it also degrades dopamine.



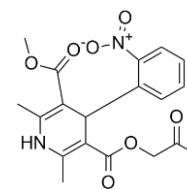
**MAO-IN-1 - CAS 124991-40-8**

**Catalog Number:**

**Molecular Weight:** 322.78

**Molecular Formula:** C<sub>17</sub>H<sub>19</sub>ClO<sub>4</sub>

**Description:** An inhibitor of monoamine oxidase B (MAO B) (IC<sub>50</sub>= 20 nM)



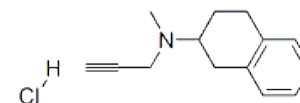
**(+)-N 0425 hydrochloride - CAS 98640-74-5**

**Catalog Number:**

**Molecular Weight:** 235.75

**Molecular Formula:** C<sub>14</sub>H<sub>17</sub>N.HCl

**Description:** (+)-N 0425 hydrochloride is a monoamine oxidase (MAO) inhibitor with selectivity for MAO-B.



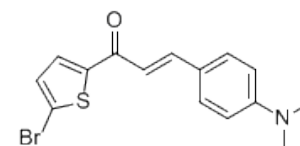
**TB5 - CAS 948841-07-4**

**Catalog Number:**

**Molecular Weight:** 336.25

**Molecular Formula:** C<sub>15</sub>H<sub>14</sub>BrNOS

**Description:** TB5 is a competitive and reversible monoamine oxidase B (MAO-B) inhibitor (K<sub>i</sub> values 1.45 μM and 0.11 μM for hMAO-A and hMAO-B, respectively). TB5 is identified as potential treatment of neurodegenerative disorders such as Parkinson's and Alzheimer's diseases.



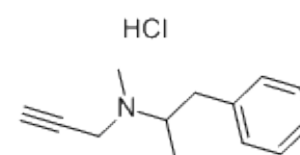
**(R)-(-)-deprenyl hydrochloride - CAS 14611-52-0**

**Catalog Number:** 14611-52-0

**Molecular Weight:** 223.74

**Molecular Formula:** C<sub>13</sub>H<sub>18</sub>ClN

**Description:** Monoamine oxidase-B inhibitor related structurally to Pargyline. Used to alleviate the symptoms of Parkinson's disease.



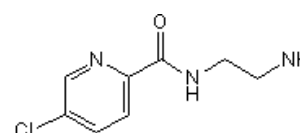
**Lazabemide hydrochloride - CAS 103878-83-7**

**Catalog Number:**

**Molecular Weight:** 236.1

**Molecular Formula:** C<sub>8</sub>H<sub>10</sub>ClN<sub>3</sub>O.HCl

**Description:** Lazabemide is a monoamine oxidase B inhibitor with IC<sub>50</sub> values of 0.03 and > 100 μM for MAO-B and MAO-A. It is potentially an antiparkinsonian agent.



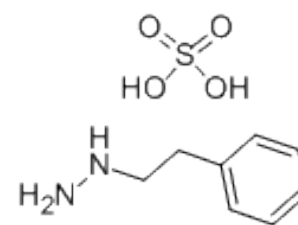
### Phenelzine sulfate - CAS 156-51-4

**Catalog Number:** 156-51-4

**Molecular Weight:** 234.27

**Molecular Formula:** C<sub>8</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>S

**Description:** Phenelzine sulfate, a non-selective hydrazine derivative inhibitor that has an irreversible function on monoamine oxidase, was effective to treat neurotic, atypical, nonendogenous depression.



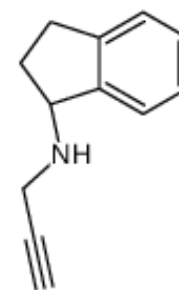
### TVP1022 - CAS 185517-74-2

**Catalog Number:** 185517-74-2

**Molecular Weight:** 185.26

**Molecular Formula:** C<sub>13</sub>H<sub>15</sub>N

**Description:** TVP1022 is the S-isomer of rasagiline (Azilect) (FDA approved anti-Parkinson's drug). Although TVP1022 is 1000 times less potent monoamine oxidase B inhibitor than rasagiline (R-isomer of rasagiline), both isomers feature similar cytoprotective and neuropro



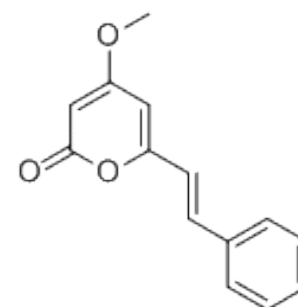
### Desmethoxyyangonin - CAS 15345-89-8

**Catalog Number:** 15345-89-8

**Molecular Weight:** 228.24

**Molecular Formula:** C<sub>14</sub>H<sub>12</sub>O<sub>3</sub>

**Description:** Desmethoxyyangonin, the microsomal metabolite of Yangonin (Y100550), reversibly inhibits of MAO-B.



### TVP1022 mesylate - CAS 202464-88-8

**Catalog Number:** 202464-88-8

**Molecular Weight:** 267.34

**Molecular Formula:** C<sub>13</sub>H<sub>17</sub>NO<sub>3</sub>S

**Description:** TVP1022 mesylate is the mesylate salt form of TVP1022. TVP1022, also called as Rasagiline, is the S-isomer of rasagiline (Azilect) (FDA approved anti-Parkinson's drug). Although TVP1022 is 1000 times less potent monoamine oxidase B inhibitor than rasagiline