



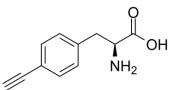
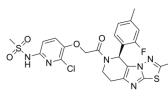
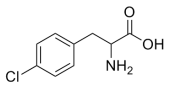
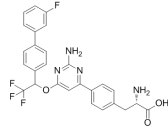
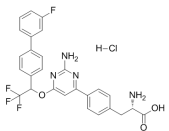
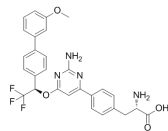
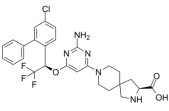
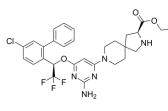
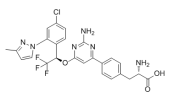
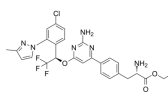
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Inhibitors, Agonists, Screening Libraries

Tryptophan Hydroxylase

Tryptophan hydroxylase (TPH) is a rate-limiting enzyme of serotonin (5-hydroxytryptamine) synthesis. TPH catalyzes the rate-limiting step in 5-HT biosynthesis. TPH exists as two isoforms, TPH1 and TPH2, which are encoded on two independent genes. TPH1 is mainly synthesized by enterochromaffin cells in the gut, whereas TPH2 is produced by serotonergic neurons in the central nervous system and by enteric neurons in the gut. TPH1 is the primary form and expresses earlier in neural development.

Tryptophan Hydroxylase Inhibitors

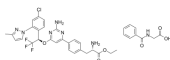
<p>4-Ethynyl-L-phenylalanine</p> <p>Cat. No.: HY-23460</p> <p>4-Ethynyl-L-phenylalanine is a selective, reversible, potent and competitive inhibitor of tryptophan hydroxylase (TPH). 4-Ethynyl-L-phenylalanine is a competitive inhibitor with regard to the substrate tryptophan, with a K_i of 32.6 μM.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 	<p>ACT-678689</p> <p>Cat. No.: HY-19572</p> <p>ACT-678689 (Compound Example 1.53.4) is a tryptophan hydroxylase (TPH) inhibitor with an IC_{50} of 8 nM.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 
<p>Fenclonine (4-Chloro-DL-phenylalanine; PCPA; CP-10188)</p> <p>Cat. No.: HY-B1368</p> <p>Fenclonine is a pharmaceutical intermediate.</p> <p>Purity: 99.10% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 500 mg, 1 g</p> 	<p>LP-533401</p> <p>Cat. No.: HY-15849</p> <p>LP-533401 is a Tryptophan hydroxylase 1 inhibitor that regulates serotonin production in the gut.</p> <p>Purity: >98.0% Clinical Data: No Development Reported Size: 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>LP-533401 hydrochloride</p> <p>Cat. No.: HY-15849A</p> <p>LP-533401 hydrochloride is a tryptophan hydroxylase 1 inhibitor that regulates serotonin production in the gut.</p> <p>Purity: 98.09% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 	<p>LX-1031</p> <p>Cat. No.: HY-13041</p> <p>LX-1031 is a potent, orally available tryptophan 5-hydroxylase (TPH) inhibitor that reduces serotonin (5-HT) synthesis peripherally.</p> <p>Purity: 99.55% Clinical Data: Phase 2 Size: 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Rodatristat (KAR5417)</p> <p>Cat. No.: HY-120083</p> <p>Rodatristat (KAR5417) is a potent tryptophan hydroxylase 1 (TPH1) and TPH2 inhibitor with IC_{50}s value of 33 nM and 7 nM, respectively, and shows robust reduction of intestinal serotonin (5-HT) levels in mice.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 	<p>Rodatristat ethyl (KAR5585)</p> <p>Cat. No.: HY-101124</p> <p>Rodatristat ethyl (KAR5585) is a first-in-class oral tryptophan hydroxylase 1 (TPH1) inhibitor with nanomolar in vitro potency. Rodatristat ethyl reduces the level of 5-HT and significantly reduces pulmonary arterial hypertension (PAH).</p> <p>Purity: >98% Clinical Data: Phase 2 Size: 1 mg, 5 mg</p> 
<p>Telotristat (LP-778902)</p> <p>Cat. No.: HY-13055B</p> <p>Telotristat (LP-778902) is a potent tryptophan hydroxylase inhibitor with an in vivo IC_{50} of 0.028 μM.</p> <p>Purity: 99.46% Clinical Data: Phase 3 Size: 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg</p> 	<p>Telotristat ethyl (LX1606)</p> <p>Cat. No.: HY-13055A</p> <p>Telotristat ethyl (LX1606) is a novel, orally-delivered inhibitor of tryptophan hydroxylase that reduces serotonin production.</p> <p>Purity: 99.68% Clinical Data: Launched Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p> 

Telotristat etiprate

(LX1606 Hippurate)

Cat. No.: HY-13055

Telotristat etiprate (LX1606 Hippurate) is a novel, orally-delivered inhibitor of **tryptophan hydroxylase** that reduces serotonin production.



Purity: 99.77%

Clinical Data: Launched

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg