Tryptophan Hydroxylase

Thrombin is a serine protease that in humans is encoded by the F2 gene. Thrombin is an intriguing coagulation protease demonstrating an array of effects on endothelial cells, vascular smooth muscle cells (VSMC), monocytes, and platelets, all of which are involved in the pathophysiology of atherosclerosis. There is mounting evidence that thrombin acts as a powerful modulator of many processes like regulation of vascular tone, permeability, migration and proliferation of VSMC, recruitment of monocytes into the atherosclerotic lesions, induction of diverse pro-inflammatory markers, and all of these are related to the progression of cardiovascular disease. Recent studies in transgenic mice models indicate that the deletion of the natural thrombin inhibitor heparin cofactor II promotes an accelerated atherogenic state. The combined evidence points to thrombin as a pivotal contributor to vascular pathophysiology.
Tryptophan Hydroxylase Inhibitors & Modulators

Fenclonine
(4-Chloro-DL-phenylalanine; PCPA; CP-10188)  Cat. No.: HY-81368

Bioactivity:  Fenclonine is a pharmaceutical intermediate.

Purity:  99.10%
Clinical Data:  No Development Reported
Size:  10mM x 1mL in Water, 1 g

LP-533401
Cat. No.: HY-15849

Bioactivity:  LP-533401 is a Tryptophan hydroxylase 1 inhibitor that regulates serotonin production in the gut.

Purity:  98.0%
Clinical Data:  No Development Reported
Size:  10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg

LP-533401 hydrochloride
Cat. No.: HY-15849A

Bioactivity:  LP-533401 hydrochloride is a tryptophan hydroxylase 1 inhibitor that regulates serotonin production in the gut.

Purity:  >98%
Clinical Data:  No Development Reported
Size:  1 mg, 5 mg, 10 mg, 25 mg

LX-1031
Cat. No.: HY-13041

Bioactivity:  LX-1031 is a potent, orally available tryptophan 5-hydroxylase (TPH) inhibitor that reduces serotonin (5-HT) synthesis peripherally.

Purity:  98.71%
Clinical Data:  Phase 2
Size:  10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Telotristat
(LP-778902)  Cat. No.: HY-13055B

Bioactivity:  Telotristat (LP-778902) is a potent tryptophan hydroxylase inhibitor with an in vivo IC\textsubscript{50} of 0.028 μM.

Purity:  99.46%
Clinical Data:  Phase 3
Size:  10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg

Telotristat ethyl
(LX1606)  Cat. No.: HY-13055A

Bioactivity:  Telotristat ethyl (LX1606) is a novel, orally-delivered inhibitor of tryptophan hydroxylase that reduces serotonin production.

Purity:  99.68%
Clinical Data:  Phase 3
Size:  10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

Telotristat etiprate
(LX1606 (Hippurate))  Cat. No.: HY-13055

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

Purity:  99.87%
Clinical Data:  Launched
Size:  10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

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