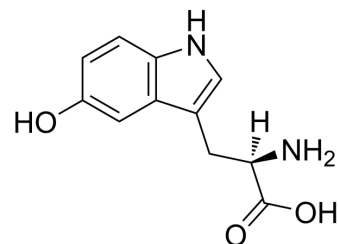


D-5-Hydroxytryptophan

Cat. No.:	HY-W007223
CAS No.:	4350-07-6
Molecular Formula:	C ₁₁ H ₁₂ N ₂ O ₃
Molecular Weight:	220.23
Target:	Others; 5-HT Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	D-5-Hydroxytryptophan (D-5-HTP) is the D-isomer of 5-HTP and can be isolated from DL-5-hydroxytryptophan by continuous separation. Compared with intraperitoneal administration of L-5-Hydroxytryptophan, which can induce dose-dependent backward walking behavior in mice, D-5-Hydroxytryptophan has no significant effect on mouse behavior and is a negative control. D-5-Hydroxytryptophan is also a 5-HT ligand, capable of binding to the 5-HT site with affinity in the micromolar range ^{[1][2][3]} .
In Vivo	D-5-Hydroxytryptophan (100, 320 mg/kg; ip; single dose) cannot induce backward walking behavior in mice, while L-5-Hydroxytryptophan can do it ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J Arendt, et al. Alternative pathways of 5-hydroxyindole metabolism. II. The role transamination in the metabolism of D-5-hydroxytryptophan in the rat. *Biochem Pharmacol.* 1967 Mar;16(3):419-22.
- [2]. Shimomura K, et al. Backward walking induced by L-5-hydroxytryptophan in mice. *Jpn J Pharmacol.* 1981 Feb;31(1):39-46.
- [3]. Acton G. Effects of D-5-hydroxytryptophan and D-DOPA on binding to serotonin and dopamine receptors. *Res Commun Chem Pathol Pharmacol.* 1988 Apr;60(1):129-32.

Caution: Product has not been fully validated for medical applications. For research use only.

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