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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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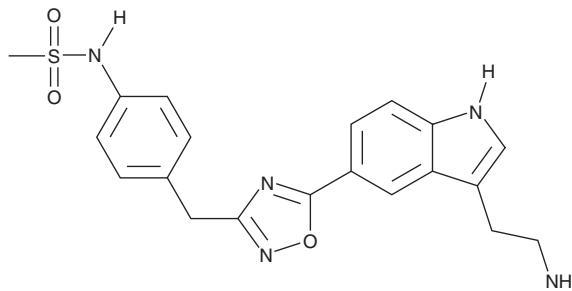
PRODUCT INFORMATION



L-694,247

Item No. 35475

CAS Registry No.: 137403-12-4
Formal Name: N-[4-[[5-[3-(2-aminoethyl)-1H-indol-5-yl]-1,2,4-oxadiazol-3-yl]methyl]phenyl]-methanesulfonamide
MF: C₂₀H₂₁N₅O₃S
FW: 411.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-694,247 is supplied as a solid. A stock solution may be made by dissolving the L-694,247 in the solvent of choice, which should be purged with an inert gas. L-694,247 is soluble in the organic solvent DMSO at a concentration of approximately 100 mM.

Description

L-694,247 is an agonist of the serotonin (5-HT) receptor subtype 5-HT_{1D}.¹ It is selective for 5-HT_{1D} over the 5-HT_{1A}, 5-HT_{1C}, 5-HT_{1E}, 5-HT₂, and 5-HT₃ receptors (K_is = 0.093, 2.29, 380, 2,187, 316, and >10,000 nM, respectively). L-694,247 inhibits adenylyl cyclase activity induced by forskolin (Item No. 11018) in guinea pig substantia nigra homogenates and potassium-induced 5-HT release in isolated guinea pig frontal cortex strips (EC₅₀s = 0.79 and 0.4 nM, respectively). It decreases water intake in dehydrated rats as well as prevents carbachol-, angiotensin II-, or isoproterenol-induced increases in water intake in normohydrated rats in a dose-dependent manner.² Intra-atrial administration of L-694,247 (0.00000125-0.1 µg/kg) decreases renal perfusion pressure but does not affect systolic blood pressure or heart rate in *in situ* autoperfused rat kidney infused with phenylephrine (Item Nos. 17205 | 18619).³

References

1. M.S., Beer, Stanton, J.A., Bevan, Y., *et al.* L-694,247: A potent 5-HT_{1D} receptor agonist. *Br. J. Pharmacol.* **110(3)**, 1196-1200 (1993).
2. De Castro-e-Silva, E., Sarmiento, C., Nascimento, T.A., *et al.* Effect of third ventricle administration of L-694,247, a selective 5-HT_{1D} receptor agonist, on water intake in rats. *Pharmacol. Biochem. Behav.* **57(4)**, 749-754 (1997).
3. García-Pedraza, J.Á., García, M., Martín, M.L., *et al.* Pharmacological evidence that 5-HT_{1D} activation induces renal vasodilation by NO pathway in rats. *Clin. Exp. Pharmacol. Physiol.* **42(6)**, 640-647 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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