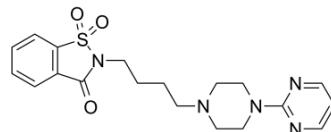


Ipsapirone

Cat. No.:	HY-19686
CAS No.:	95847-70-4
Molecular Formula:	C ₁₉ H ₂₃ N ₅ O ₃ S
Molecular Weight:	401.48
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ipsapirone (TVX Q 7821) is an anxiolytic compound and a 5-HT _{1A} receptor partial agonist. Ipsapirone (TVX Q 7821) also exhibits 5-HT _{1A} receptor antagonistic effect, and only at high doses it can also produce an inhibitory effect on 5-HT ₂ and the α ₁ -adrenergic function ^{[1][2]} .								
IC₅₀ & Target	5-HT _{1A} Receptor								
In Vivo	<p>Ipsapirone inhibits induced by 8-OH-DPAT and 5-methoxydimethyltryptamine (agonists of 5-HT_{1A} receptors) behavioural effects (flat body posture and forepaw treading) in normal and reserpinized rats^[1].</p> <p>Ipsapirone (2.5-80 mg/kg), given alone to rats induces a slight flattening of body posture (~ 1 point at the highest dose) and a mild hind limb abduction observed at doses 2.5-80 mg/kg. Ipsapirone given alone at low doses (2.5-10 mg/kg i.p.) does not significantly change the body temperature in rats and mice, but decreased it in both those species at high doses (35 mg/kg i.p.) by ca. 2-2.5%^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>Male Albino-Swiss mice (18-24 g) and male Wistar rats (160-200 g)^[1].</td> </tr> <tr> <td>Dosage:</td> <td>5 and 10 mg/kg.</td> </tr> <tr> <td>Administration:</td> <td>IP 30 min before 8-OH-DPAT and 5-MeODMT injections.</td> </tr> <tr> <td>Result:</td> <td>Behavioural responses (flat body posture, forepaw treading) to 8-OH-DPAT (5 mg/kg s.c.) in rats were antagonized by Ipsapirone (5 and 10 mg/kg i.p.).</td> </tr> </table>	Animal Model:	Male Albino-Swiss mice (18-24 g) and male Wistar rats (160-200 g) ^[1] .	Dosage:	5 and 10 mg/kg.	Administration:	IP 30 min before 8-OH-DPAT and 5-MeODMT injections.	Result:	Behavioural responses (flat body posture, forepaw treading) to 8-OH-DPAT (5 mg/kg s.c.) in rats were antagonized by Ipsapirone (5 and 10 mg/kg i.p.).
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REFERENCES

- [1]. J Maj, et al. Central action of ipsapirone, a new anxiolytic drug, on serotonergic, noradrenergic and dopaminergic functions. J Neural Transm. 1987;70(1-2):1-17.
- [2]. Stephen M. Stahl, et al. Effectiveness of ipsapirone, a 5-HT-1A partial agonist, in major depressive disorder: support for the role of 5-HT-1A receptors in the mechanism of action of serotonergic antidepressants. Int J Neuropsychopharmacol. 1998 Jul;1(1):11-18.

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

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