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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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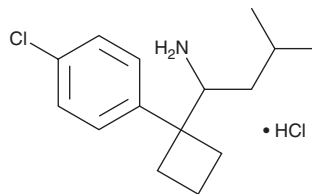
PRODUCT INFORMATION



BTS-54-505 (hydrochloride)

Item No. 39828

CAS Registry No.: 84484-78-6
Formal Name: 1-(4-chlorophenyl)- α -(2-methylpropyl)-cyclobutanemethanamine, monohydrochloride
MF: C₁₅H₂₂ClN • HCl
FW: 288.3
Purity: \geq 98%
Supplied as: A solid
Storage: -20°C
Stability: \geq 4 years



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

Laboratory Procedures

BTS-54-505 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the BTS-54-505 (hydrochloride) in the solvent of choice. BTS-54-505 (hydrochloride) is soluble in the organic solvent DMSO, which should be purged with an inert gas. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

BTS-54-505 is an active metabolite of sibutramine.¹ It inhibits norepinephrine, serotonin (5-HT), and dopamine uptake in rat cortical synaptosomes (IC₅₀s = 0.066, 5.1, and 0.61 μ M, respectively). *In vivo*, BTS-54-505 prevents reserpine-induced ptosis in rats (ED₅₀ = 3.7 mg/kg) and decreases immobility in the Porsolt learned helplessness test in mice when administered at a dose of 10 mg/kg. BTS-54-505 (10 mg/kg) increases colonic temperature, a marker of thermogenesis, and decreases food intake in rats.²

References

1. Luscombe, G.P., Hopcroft, R.H., Tomas, P.C., *et al.* The contribution of metabolites to the rapid and potent down-regulation of rat cortical β -adrenoceptors by the putative antidepressant sibutramine hydrochloride. *Neuropharmacology* **28(2)**, 129-134 (1989).
2. Liu, Y.-L., Heal, D.J., and Stock, M.J. Mechanism of the thermogenic effect of Metabolite 2 (BTS 54 505), a major pharmacologically active metabolite of the novel anti-obesity drug, sibutramine. *Int. J. Obes. Relat. Metab. Disord.* **26(9)**, 1245-1253 (2002).

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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