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- Trockeneiszuschlag
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- Expressversand

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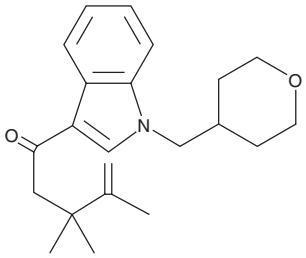
PRODUCT INFORMATION

A-834735 Degradant

Item No. 14165

CAS Registry No.:	2244599-90-2
Formal Name:	3,3,4-trimethyl-1-[1-[(tetrahydro-2H-pyran-4-yl)methyl]-1H-indol-3-yl]-4-penten-1-one
MF:	$C_{22}H_{29}NO_2$
FW:	339.5
Purity:	≥95%
UV/Vis.:	λ_{max}: 213, 246, 304 nm
Supplied as:	A solution in methanol
Storage:	-20°C
Stability:	≥4 years



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

Description

A-834735 (Item No. 11163) is an indole-derived cannabinoid (CB) with a 3-tetramethylcyclopropylmethanone substituent. It acts as a full agonist at both the central CB_1 and peripheral CB_2 receptors in rat with K_i values of 4.6 and 0.31 nM, respectively, and EC_{50} values of 12 and 0.21 nM, respectively.[1] A-834735 readily crosses the blood-brain barrier, dose-dependently reversing thermal hyperalgesia without adverse side effects in a rat neuropathic pain model.[1] A-834735 degradant is a common impurity observed during GC-MS analysis of samples containing A-834735. The opened ring of the degradant is presumed to be produced during heating of A-834735. This structure gives rise to a prominent fragment ion that is 15 amu greater than the base peak of A-834735. This pattern is consistent with McLafferty rearrangement of the degradant which does not occur with the parent compound.[2]

References

1. Chin, C.-L., Tovcimak, A.E., Hradil, V.P., *et al.* Differential effects of cannabinoid receptor agonists on regional brain activity using pharmacological MRI. *Br. J. Pharmacol.* **153(2)**, 367-379 (2008).
2. McLafferty, F.W. Mass spectrometric analysis. Molecular rearrangements. *Anal. Chem.* **31(1)**, 82-87 (1959).

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