



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## JTE-907

Item No. 10009857

CAS Registry No.: 282089-49-0

Formal Name: N-(1,3-benzodioxol-5-ylmethyl)-1,2-dihydro-7-methoxy-2-oxo-8-(pentyloxy)-3-quinolinecarboxamide

MF:  $C_{24}H_{26}N_2O_6$

FW: 438.5

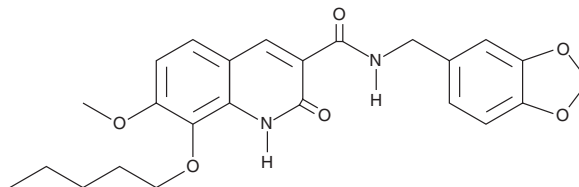
Purity:  $\geq 98\%$

UV/Vis.:  $\lambda_{max}$ : 222, 264, 331 nm

Supplied as: A crystalline solid

Storage:  $-20^{\circ}\text{C}$

Stability:  $\geq 2$  years



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

### Laboratory Procedures

JTE-907 is supplied as a crystalline solid. A stock solution may be made by dissolving the JTE-907 in the solvent of choice. JTE-907 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of JTE-907 in these solvents is approximately 0.16 and 16.6 mg/ml, respectively.

JTE-907 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JTE-907 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. JTE-907 has a solubility of approximately 0.2 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

JTE-907 is a selective peripheral cannabinoid ( $\text{CB}_2$ ) receptor agonist with  $K_d$  values of 25 and 2,370, 1.55 and 1,060, and 0.38 and 1,050 nM for human, mouse, and rat  $\text{CB}_2$  and  $\text{CB}_1$  receptors, respectively.<sup>1</sup> It increases forskolin-stimulated cAMP production in CHO cells expressing human and mouse  $\text{CB}_2$  in a dose-dependent manner. *In vivo*, JTE-907 inhibits carrageenin-induced edema in mouse paws with an  $\text{ED}_{50}$  value of 0.05 mg/kg. JTE-907 also inhibits spontaneous scratching in a mouse model of chronic dermatitis at doses of 1 and 10 mg/kg.<sup>2</sup>

### References

1. Iwamura, H., Suzuki, H., Ueda, Y., *et al.* In vitro and in vivo pharmacological characterization of JTE-907, a novel selection ligand for cannabinoid  $\text{CB}_2$  receptor. *J. Pharmacol. Exp. Ther.* **296**(2), 420-425 (2001).
2. Maekawa, T., Nojima, H., Kuraishi, Y., *et al.* The cannabinoid  $\text{CB}_2$  receptor inverse agonist JTE-907 suppresses spontaneous itch-associated responses of NC mice, a model of atopic dermatitis. *Euro. J. Pharmacol.* **542**(1-3), 179-183 (2006).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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