

Product Data Sheet

Product Name: PF-03550096

Cat. No.: GC44607

Chemical Properties

Cas. No. 910376-39-5

Chemical Name N-[(1S)-1-(aminocarbonyl)-2,2-dimethylpropyl]-2,3-dihydro-3-(3-hydroxy-3-methylbutyl)-2-oxo-1H-benzimidazole-1-carboxamide

SMILES O=C(N[C@H](C(N=O)C(C)(C)C)N1C(N(CCC(C)(O)C)C2=C1C=CC=C2)=O

Formula C₁₉H₂₈N₄O₄

M.Wt 376.5

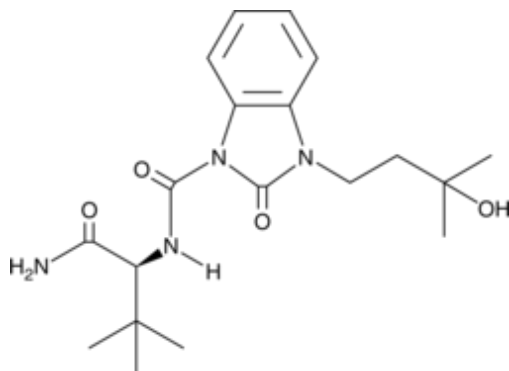
Solubility 2mg/mL in DMSO or in DMF

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

PF-03550096 is a synthetic cannabinoid (CB) that selectively targets the peripheral CB₂ receptor over the central CB₁ receptor ($K_{is} = 7.9$ and 1,500 nM for human isoforms, respectively).[1] [2] It shows similar selectivity for inhibiting forskolin-stimulated cAMP production in CHO cells expressing human CB₁ and CB₂ receptors ($EC_{50}s = 450$ and 2.1 nM, respectively).[2] PF-03550096 is orally bioavailable and significantly reduces colonic pain induced by 2,4,6-trinitrobenzene sulfonic acid in rats.[2] This product is intended for forensic and research applications.

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

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Reference:

- [1]. Ando, K., Buchler, I., Hedge, S.G., et al. Benzimidazolone derivatives. PCT/IB2007/002583, (2009).
- [2]. Kikuchi, A., Ohashi, K., Sugie, Y., et al. Pharmacological evaluation of a novel cannabinoid 2 (CB2) ligand, PF-03550096, in vitro and in vivo by using a rat model of visceral hypersensitivity. Journal of Pharmacological Sciences 106(2), 219-224 (2008).

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