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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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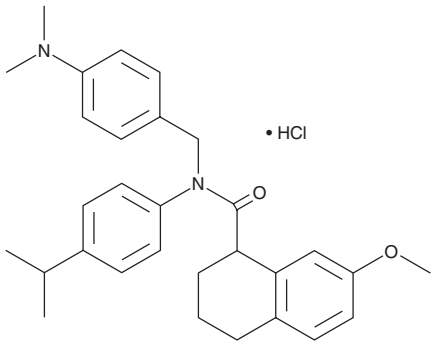
PRODUCT INFORMATION

W-54011

Item No. 21231

CAS Registry No.:	405098-33-1
Formal Name:	N-[[4-(dimethylamino)phenyl]methyl]-1,2,3,4-tetrahydro-7-methoxy-N-[4-(1-methylethyl) phenyl]-1-naphthalenecarboxamide, monohydrochloride
MF:	$C_{30}H_{36}N_2O_2 \bullet HCl$
FW:	493.1
Purity:	≥98%
UV/Vis.:	λ_{max}: 263 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

W-54011 is supplied as a crystalline solid. A stock solution may be made by dissolving the W-54011 in the solvent of choice, which should be purged with an inert gas. W-54011 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of W-54011 in ethanol is approximately 3 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

W-54011 is an orally bioavailable, nonpeptide antagonist of complement component 5a receptor 1 (C5aR), also known as cluster of differentiation 88 (CD88).[1] W-54011 inhibits ^{125}I-rhC5a binding in neutrophils (K_i = 2.2 nM) and C5a-mediated intracellular Ca^{2+} mobilization (IC_{50} = 3.1 nM).[1] W-54011 is selective and does not affect Ca^{2+} mobilization mediated by other G protein-coupled receptor (GPCR) ligands, N-Formyl-Met-Leu-Phe (fMLF; Item No. 21495) or IL-8 up to a concentration of 10 µM.[1] It inhibits Ca^{2+} mobilization in neutrophils in humans, cynomolgus monkeys, and gerbils, but not in mice, rats, guinea pigs, rabbits, or dogs.[1] At 10 nM, W-54011 also inhibits C5a-mediated migration and vessel formation of human microvascular endothelial cells (HMEC-1).[2]

References

1. Sumichika, H., Sakata, K., Sato, N., *et al.* Identification of a potent and orally active non-peptide C5a receptor antagonist. *J. Biol. Chem.* **277(51)**, 49403-49407 (2002).
2. Kurihara, R., Yamamoka, K., Sawamukai, N., *et al.* C5a promotes migration, proliferation, and vessel formation in endothelial cells. *Inflamm. Res.* **59(8)**, 659-666 (2010).

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