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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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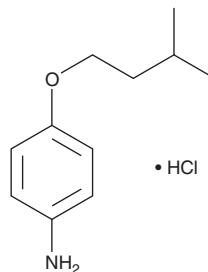
PRODUCT INFORMATION



CP 24,879 (hydrochloride)

Item No. 10120

CAS Registry No.: 10141-51-2
Formal Name: 4-(3-methylbutoxy)-benzenamine, monohydrochloride
Synonym: *p*-(Isopentyloxy)-aniline
MF: C₁₁H₁₇NO • HCl
FW: 215.8
Purity: ≥98%
UV/Vis.: λ_{max}: 275 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

CP 24,879 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the CP 24,879 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. CP 24,879 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CP 24,879 (hydrochloride) in ethanol is approximately 50 mg/ml and approximately 30 mg/ml in DMSO and DMF.

CP 24,879 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CP 24,879 (hydrochloride) should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. CP 24,879 (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Essential fatty acid deficiency symptoms include immune system depression and a general state of inflammatory inhibition. CP 24,879 is an inhibitor of arachidonic acid biosynthesis acting *via* the inhibition of Δ^5/Δ^6 desaturase.¹ Mice injected with CP 24,879 at 3 mg/kg had a reduction of liver arachidonate content of approximately 50%. Murine mastocytoma cells treated with 5 μ M CP 24,879 showed increased mead acid content and nearly complete ablation of leukotriene C₄ synthesis, consistent with a desaturase inhibition-induced state of essential fatty acid deficiency.²

References

1. Obukowicz, M.G., Raz, A., Pyla, P.D., *et al.* Identification and characterization of a novel Δ^6/Δ^5 fatty acid desaturase inhibitor as a potential anti-inflammatory agent. *Biochem. Pharmacol.* **55(7)**, 1045-1058 (1998).
2. Levin, G., Duffin, K.L., Obukowicz, M.G., *et al.* Differential metabolism of dihomo- γ -linolenic acid and arachidonic acid by cyclo-oxygenase-1 and cyclo-oxygenase-2: implications for cellular synthesis of prostaglandin E₁ and prostaglandin E₂. *Biochem. J.* **365(Pt 2)**, 489-496 (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.

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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