

Produktinformation



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

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Zuschläge

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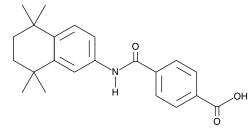
Product Information



AM80

Item No. 71770

CAS Registry No.:	94497-51-5
Formal Name:	4-[[(5,6,7,8-tetrahydro-5,5,8,8-
	tetramethyl-2-naphthalenyl)amino]
	carbonyl]-benzoic acid
Synonyms:	Amnolake, NSC 608000,
	Retinobenzoic Acid, Tamibarotene
MF:	C ₂₂ H ₂₅ NO ₃
FW:	351.4
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{\max} : 236, 291 nm



Laboratory Procedures

For long term storage, we suggest that AM80 be stored as supplied at -20°C. It should be stable for at least two years. AM80 is supplied as a crystalline solid. A stock solution may be made by dissolving the AM80 in the solvent of choice. AM80 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of AM80 in these solvents is approximately 20, 30 and 50 mg/ml, respectively.

AM80 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

AM80 is a retinoic acid receptor agonist that is selective for RAR α (K_d = 62 nM; AC₅₀ = 1.46 nM) compared to RAR β $(K_d = 280 \text{ nM}; AC_{50} = 6.87 \text{ nM})$ and RAR γ ($K_d = 816 \text{ nM}; AC_{50} = 148.7 \text{ nM}$).¹ It demonstrates greater specific binding to RÅRa compared to retinoic acid (Item No. 11017), which exhibits little selectivity across RARa, β , or γ .^{1,2} AM80 exhibits antiproliferative effects against acute promyelocytic leukemia cells, inducing human promyelocytic leukemia HL-60 cell differentiation with an ED₅₀ value of 0.79 nM.^{2,3} It has also been shown to suppress the growth of other myeloid and lymphoid malignant cells.²

References

- 1. Bernard, B.A., Bernardon, J.-M., Delescluse, C., et al. Identification of synthetic retinoids with selectivity for human nuclear retinoic acid receptor y. Biochem. Biophys. Res. Commun. 186(2), 977-983 (1992).
- 2. Jimi, S., Mashima, K., Matsumoto, T., et al. RARa is a regulatory factor for Am-80-induced cell growth inhibition of hematologic malignant cells. Int. J. Oncol. 31(2), 397-404 (2007).
- 3. Eyrolles, L., Kagechika, H., Kawachi, E., et al. Retinobenzoic Acids. 6. Retinoid antagonists with a heterocyclic ring. J. Med. Chem. 37(10), 1508-1517 (1994).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/71770

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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