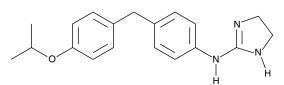
Product Information



CAY10441

Item No. 10005186

CAS Registry No.:	221529-58-4
Formal Name:	4,5-dihydro-N-[4-[[4-(1-methyl
	ethoxy)phenyl]methyl]phenyl]-1H-
	imadazol-2-amine
Synonym:	RO1138452
MF:	C ₁₉ H ₂₃ N ₃ O
FW:	309.4
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ _{max} : 232 nm



Laboratory Procedures

For long term storage, we suggest that CAY10441 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10441 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10441 in an organic solvent purged with an inert gas. CAY10441 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10441 in these solvents is at least 20 mg/ml.

CAY10441 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10441 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CAY10441 has a solubility of 0.05 mg/ml in a 1:10 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Recently, a series of relatively simple compounds were found to be high-affinity ligands and functional antagonists for the human IP (prostacyclin) receptor.¹ CAY10441 is one of the more potent of these. CAY10441 antagonizes the carbaprostacyclin-induced activation of human neuroblastoma adenylate cyclase, blocking cyclic AMP accumulation in a dose-dependent manner. Likewise, it inhibits the binding of tritiated iloprost to rodent neuroblastoma cells with a K; of about 1.5 nM. At levels between 2-20 mg/kg in rats, CAY10441 shows significant analgesic activity in standard antinociceptive assays.¹

Reference

1. Clark, R.D., Jahangir, A., Severance, D., et al. Discovery and SAR development of 2-(phenylamino) imidazolines as prostacyclin receptor antagonists. Bioorg. Medicinal Chem. Letters 14, 1053-1056 (2004).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10005186

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

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