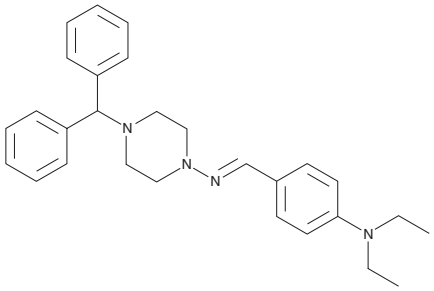
PRODUCT INFORMATION

L-138,037

Item No. 16526

CAS Registry No.:	31639-49-3
Formal Name:	N-[[4-(diethylamino)phenyl]methylene]-4-(diphenylmethyl)-1-piperazinamine
MF:	$C_{28}H_{34}N_4$
FW:	426.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 224, 318 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

L-138,037 is supplied as a crystalline solid. A stock solution may be made by dissolving the L-138,037 in the solvent of choice, which should be purged with an inert gas. L-138,037 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of L-138,037 in ethanol and DMSO is approximately 1 mg/ml and approximately 20 mg/ml in DMF.

Description

L-138,037 is a hydrazone derivative of 1-benzhydryl-4-aminopiperazine first studied for antimicrobial activity in the early 1970s. While this compound did not demonstrate *in vitro* antibacterial or antifungal activity, similar 1,4-disubstituted piperazines have been useful bactericides and fungicides demonstrating antimicrobial activity against *S. aureus*, *B. subtilis*, *C. perfringens*, *M. phlei*, and *S. cerevisiae* with MIC values ranging from 0.78-30 µg/ml.[1] L-138,037 has been explored for its ability to enhance binding of a ligand, such as FGF-2 or EPO, to a receptor, such as FGF-R1 or EPO-R, respectively, *via* non-covalent interaction with the ligand and with a second ligand (either a second molecule identical to the first ligand, or a second, different ligand molecule) for the same receptor, the receptor itself, or both.[2]

References

1. Yung, D.K., Mahony, D.E., and Whitehouse, L.W. Synthesis and *in vitro* antimicrobial evaluation of hydrazones of 1-phenyl-, 1-benzyl-, and 1-benzhydryl-4-aminopiperazines. *J. Pharm. Sci.* **60(3)**, 386-389 (1971).
2. Soumya, R., Charette, M., and Finklestein, S.P. Methods and compositions for non-covalently enhanced receptor binding. *Biotrofix, Inc.* **WO2009/088975A2** (2009).

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