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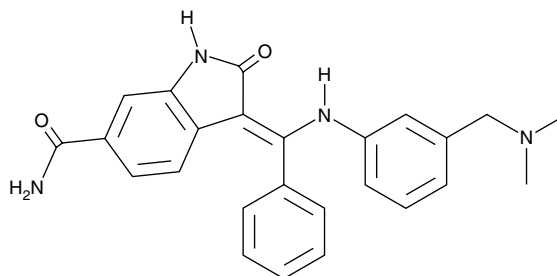
Product Information



BIX02188

Item No. 16238

CAS Registry No.: 334949-59-6
Formal Name: (3Z)-3-[[[3-[(dimethylamino)methyl]phenyl]amino]phenylmethylene]-2,3-dihydro-2-oxo-1H-indole-6-carboxamide
MF: C₂₅H₂₄N₄O₂
FW: 412.5
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 210, 285, 384 nm



Laboratory Procedures

For long term storage, we suggest that BIX02188 be stored as supplied at -20°C. It should be stable for at least two years.

BIX02188 is supplied as a crystalline solid. A stock solution may be made by dissolving the BIX02188 in the solvent of choice. BIX02188 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of BIX02188 in these solvents is approximately 20 mg/ml.

BIX02188 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BIX02188 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BIX02188 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

BIX02188 is a potent inhibitor of MEK5 (IC₅₀ = 4.3 nM) with reduced activity towards inhibition of ERK5 and TGFβR1 (IC₅₀s = 810 and 1,800 nM, respectively).¹ It does not inhibit the closely related kinases MEK1, MEK2, ERK2, and JNK2 (IC₅₀s = > 6,300 nM).¹ BIX02188 inhibits phosphorylation of ERK5 in a dose-dependent manner without affecting phosphorylation of ERK1/2, p38 MAPK, or JNK1/2.¹

Reference

1. Tatake, R.J., O'Neill, M.M., Kennedy, C.A., *et al.* Identification of pharmacological inhibitors of the MEK5/ERK5 pathway. *Biochem. Biophys. Res. Commun.* **377**, 120-125 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16238

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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.

SAFETY DATA

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