Methylpiperidino pyrazole

CAS Registry No.: 289726-02-9
Formal Name: 4-[1-(4-hydroxyphenyl)-4-methyl-5-[4-[2-(1-piperidinyl)ethoxy]phenyl]-1H-pyrazol-3-yl]-phenol
Synonym: MPP
MF: C_{29}H_{31}N_{3}O_{3}
FW: 469.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax: 204, 256 nm

Laboratory Procedures

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

MPP is supplied as a crystalline solid. A stock solution may be made by dissolving the MPP in the solvent of choice. MPP is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of MPP in these solvents is approximately 3, 5, and 14 mg/ml, respectively.

MPP is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MPP should first be dissolved in DMF and then diluted with the aqueous buffer of choice. MPP has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Estrogen action is mediated through two estrogen receptor (ER) subtypes, ERα and ERβ, which have distinct target tissue distributions and functional activities. MPP is an ER antagonist that is highly selective for ERα compared to ERβ (Kis = 5.6 nM and 2.3 μM, respectively). It can inhibit ERα transcriptional activation with an IC50 value of 80 nM. It has been used to evaluate the role of ERα in various estrogen-responsive systems, including certain cancers.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/13863

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 with the material. This information does not constitute a warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman chemical company warrants only to the original customer that the material will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman be liable for any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed of their possible existence.

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