

Paclobutrazol Biochemical

Paclobutrazol

CATALOG #
AAA227397

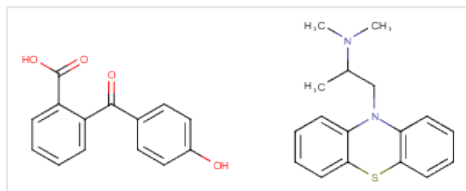
PRODUCT SYNONYMS

Paclobutrazol; D 08768; D08768; D-08768; Paclobutrazol biochemical

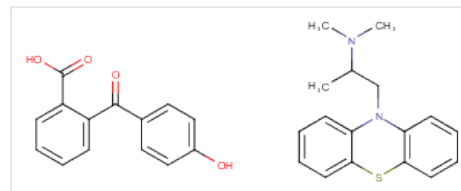
PRODUCT SPECIFICATIONS

Purity/Purification	97.21%
SMILES	[C@H](CC1=CC=C(Cl)C=C1[C@H](C(CC)C)O)N2C=NC=N2
Formula	C15H20ClN3O
CAS	76738-62-0
Solubility	Ethanol:PBS(pH 7.2)(1:1): 0.5 mg/mL DMSO: 200 mg/mL (680.7 mM), Need ultrasonic Ethanol: 10 mg/mL DMF: 10 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES


Structure

Promethazine hibenazate, CAS 96590-75-9


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ADDITIONAL INFORMATION

Related Product Information for Paclobutrazol biochemical	Paclobutrazol is a triazole-containing plant growth retardant that is known to inhibit the biosynthesis of gibberellins. ^{1,2} It also has antifungal activities. ³ PBZ, which is transported acropetally in plants, can also suppress the synthesis of abscisic acid and induce chilling tolerance in plants. ^{1,4,5} PBZ is typically used to support research on the role of gibberellins in plant biology.
Product Categories/Family for Paclobutrazol biochemical	Antifungal

References

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1. Brilhante RSN, de Oliveira JS, de Jesus Evangelista AJ, Pereira VS, Alencar LP, Castelo-Branco DSCM, Camara LMC, de Lima-Neto RG, Cordeiro RA, Sidrim JJC, Rocha MFG. In vitro effects of promethazine on cell morphology and structure and mitochondrial activity of azole-resistant *Candida tropicalis*. *Med Mycol*. 2017 Oct 9. doi: 10.1093/mmy/myx088. [Epub ahead of print] PubMed PMID: 29420801. href="javascript:void(0)" >
2. Nadri S, Mahmoudvand H, Taei N, Anbari K, Beiranvand S. Promethazine and Oral Midazolam Preanesthetic Children Medication. *Pediatr Emerg Care*. 2018 Jan 15. doi: 10.1097/PEC.0000000000001389. [Epub ahead of print] PubMed PMID: 29337835. href="javascript:void(0)" >
3. Talebpour M, Ghiasnejad Omrani N, Imani F, Shariat Moharari R, Pourfakhr P, Khajavi MR. Comparison Effect of Promethazine/Dexamethasone and Metoclopramide /Dexamethasone on Postoperative Nausea and Vomiting after Laparoscopic Gastric Placation: A Randomized Clinical Trial. *Anesth Pain Med*. 2017 Jul 22;7(4):e57810. doi: 10.5812/aapm.57810. eCollection 2017 Aug. PubMed PMID: 29226110; PubMed Central PMCID: PMC5712203. href="javascript:void(0)" >
4. Motamed H, Moezzi M, Rooyfard AD, Angali KA, Izadi Z. A Comparison of the Effects and Side Effects of Oral Betahistine with Injectable Promethazine in the Treatment of Acute Peripheral Vertigo in Emergency. *J Clin Med Res*. 2017 Dec;9(12):994-997. doi: 10.14740/jocmr3093w. Epub 2017 Nov 6. PubMed PMID: 29163732; PubMed Central PMCID: PMC5687903.

NCBI AND UNIPROT INFORMATION

Molecular Weight

526.65

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/paclobutrazol/227397>