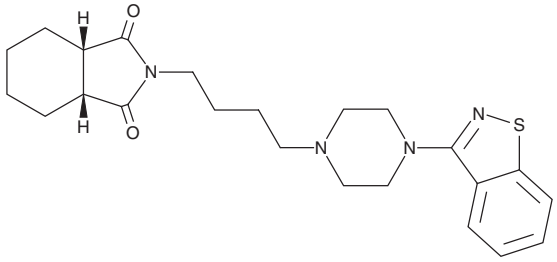
PRODUCT INFORMATION

Perospirone

Item No. 46279

CAS Registry No.: 150915-41-6
Formal Name: (3aR,7aS)-*rel*-2-[4-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]butyl]hexahydro-1H-isoindole-1,3(2H)-dione
Synonym: SM-9018
MF: $C_{23}H_{30}N_4O_2S$
FW: 426.6
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Perospirone is supplied as a solid. A stock solution may be made by dissolving the perospirone in the solvent of choice, which should be purged with an inert gas. Perospirone is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

Perospirone is an antagonist of the serotonin (5-HT) receptor subtypes 5-HT_2 and 5-HT_{1A} and the dopamine D_2 receptor (K_is = 0.61, 2.9, and 1.4 nM, respectively, in rat brain membranes).[1] It is selective for these receptors over the dopamine D_1 and α_1- and α_2-adrenergic receptors (K_is = 41, 17, and 408 nM, respectively) and a panel of six other receptors (K_is = >1,000 nM for all). Perospirone inhibits clonic seizures induced by tryptamine (Item No. 20995) and reduces hyperactivity induced by methamphetamine in rats and climbing behavior induced by apomorphine in mice (ED_{50}s = 1.4, 2.2, and 3.5 mg/kg, respectively) but does not induce catalepsy in rats or mice.[2] Formulations containing perospirone have been used in the treatment of schizophrenia and acute bipolar mania.

References

1. Kato, T., Hirose, A., Ohno, Y., *et al*. Binding profile of SM-9018, a novel antipsychotic candidate. *Jpn. J. Pharmacol.* **54(4)**, 478-481 (1990).
2. Hirose, A., Kato, T., Ohno, Y., *et al*. Pharmacological actions of SM-9018, a new neuroleptic drug with both potent 5-hydroxytryptamine$_2$ and dopamine$_2$ antagonistic actions. *Jpn. J. Pharmacol.* **53(3)**, 321-329 (1990).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM