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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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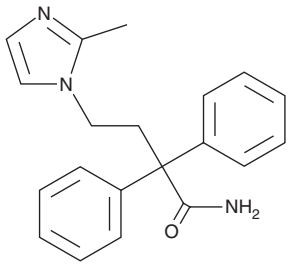
PRODUCT INFORMATION

Imidafenacin

Item No. 37420

CAS Registry No.:	170105-16-5
Formal Name:	2-methyl-α,α-diphenyl-1H-imidazole-1-butanamide
Synonyms:	KRP 197, ONO-8025
MF:	$C_{20}H_{21}N_3O$
FW:	319.4
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

Imidafenacin is supplied as a solid. A stock solution may be made by dissolving the imidafenacin in the solvent of choice, which should be purged with an inert gas. Imidafenacin is slightly soluble in DMSO and dimethyl formamide.

Description

Imidafenacin is an antagonist of muscarinic acetylcholine receptors (mAChRs; K_is = 7.55, 22.6, 1.42, 8.86, and 2.63 nM, respectively, for recombinant human M_1-M_5 receptors).[1] It binds to isolated guinea pig bladders (K_b = 0.813 nM) and inhibits ACh release from isolated rat bladders (IC_{50} = 0.747 nM). Imidafenacin (10-300 µg/kg) reduces urine volume in orally water-loaded rats.[2] Formulations containing imidafenacin have been used in the treatment of overactive bladder.

References

1. Kobayashi, F., Yageta, Y., Segawa, M., *et al.* Effects of imidafenacin (KRP-197/ONO-8025), a new anti-cholinergic agent, on muscarinic acetylcholine receptors. High affinities for M_3 and M_1 receptor subtypes and selectivity for urinary bladder over salivary gland. *Arzneimittelforschung* **57(2)**, 92-100 (2007).
2. Yamazaki, T., Fukata, A., and Muraki, Y. Imidafenacin exerts the antidiuretic effect by enhancing vasopressin-related responses in orally water-loaded rats. *Eur. J. Pharmacol.* **791**, 72-77 (2016).

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