

## **Certificate of Analysis**

Catalog Number	BP13593
Product Name	YM-46303

## **Physical and Chemical Properties**

CAS No.	171722-81-9
Chemical Formula	C20H23ClN2O2
Molecular Weight	358.87
Solubility	
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	×

## **Product Information**

Description	YM-46303 is an antagonist of mAChR

In vivo	Compared with oxybutynin, YM-46303 showed about 10 times higher inhibitory activity on bladder pressure during reflex rhythmic contractions, and increased selectivity of bladder contraction about saliva secretion in rats by about 5 times. Further evaluation of antimuscarinic effects on bradycardia and pressor in pithed rats, and on tremor in mice, show that YM-46303 can be useful for the treatment of urinary urge incontinence as a bladder-selective M3 antagonist with potent activities and fewer side effects. YM-46303 shows in vivo selective inhibitory activities on bladder pressure in reflexly-evoked rhythmic contraction against oxotremorine-induced salivary secretion. In addition, YM-46303 has potent activity in a guinea pig model of methacholine-induced bronchospasm on intravenous administration.

## **Analytical Data**

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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