

# Otilonium (bromide)

Catalog No: tcsc2693



## Available Sizes

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

26095-59-0

**Formula:**

$C_{29}H_{43}BrN_2O_4$

**Pathway:**

Neuronal Signaling;GPCR/G Protein

**Target:**

mAChR;mAChR

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 110 mg/mL (195.18 mM; Need ultrasonic and warming)

**Alternative Names:**

Octylonium bromide;SP63

**Observed Molecular Weight:**

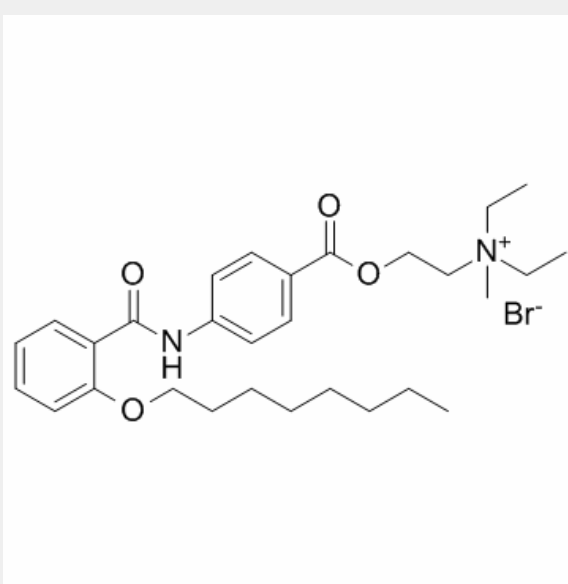
563.57

## Product Description

Otilonium Bromide is an antimuscarinic used as a spasmolytic agent.

Target: mAChR

Otilonium bromide inhibited the generation of ACh-induced calcium signals in a dose dependent manner ( $IC_{50}=880$  nM) [1]. Otilonium, a clinically useful spasmolytic, behaves as a potent blocker of neuronal nicotinic acetylcholine receptors (AChR). Whole-cell  $Ba^{2+}$  currents ( $I_{Ba}$ ) through  $Ca^{2+}$  channels of voltage-clamped chromaffin cells were blocked by otilonium with an  $IC_{50}$  of 6.4  $\mu$ M. Otilonium inhibited the secretory responses induced by 10 s pulses of 50  $\mu$ M DMPP with an  $IC_{50}$  of 7.4 nM [2]. Otilonium bromide may represent an effective treatment for irritable bowel syndrome because it reduces its predominant symptom (abdominal pain/ discomfort) more than placebo does [3]. Otilonium bromide (OB) is a spasmolytic agent that blocks L-Type Calcium channels in human colonic smooth muscle. Otilonium bromide is safe, well tolerated and superior to placebo in reducing the frequency of abdominal pain, severity of abdominal bloating and protecting from symptom relapse in IBS. These results further confirm that patients with IBS can improve during and following treatment with otilonium bromide [4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!