



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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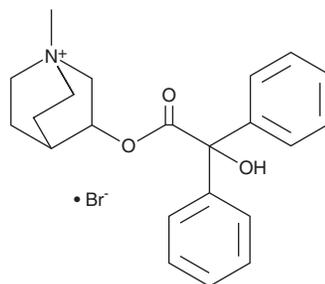
# PRODUCT INFORMATION



## Clidinium (bromide)

Item No. 21428

**CAS Registry No.:** 3485-62-9  
**Formal Name:** 3-[(2-hydroxy-2,2-diphenylacetyl)oxy]-1-methyl-1-azoniabicyclo[2.2.2]octane, monobromide  
**Synonym:** Ro 2-3773  
**MF:** C<sub>22</sub>H<sub>26</sub>NO<sub>3</sub> • Br  
**FW:** 432.4  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

Clidinium (bromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the clidinium (bromide) in the solvent of choice. Clidinium (bromide) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of clidinium (bromide) in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of clidinium (bromide) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of clidinium (bromide) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Clidinium is a gastrointestinal muscarinic receptor antagonist ( $K_i = 3$  nM against [<sup>3</sup>H]quinuclidinyl benzilate binding in rat colonic enterocytes).<sup>1</sup> Administration of clidinium, at a dose of 1 mg/kg, slows intestinal transit and induces constipation in mice.<sup>2</sup> This clidinium-induced constipation induces serum hyperammonemia and decreases clonic, myoclonic, and tonic seizure thresholds in a murine pentylenetetrazole-induced epilepsy model.

### References

1. Zimmerman, T.W. and Binder, H.J. Muscarinic receptors on rat isolated colonic epithelial cells. A correlation between inhibition of [<sup>3</sup>H]quinuclidinyl benzilate binding and alteration in ion transport. *Gastroenterology* **83**(6), 1244-1251 (1982).
2. Moezi, L., Pirsalami, F., and Inaloo, S. Constipation enhances the propensity to seizure in pentylenetetrazole-induced seizure models of mice. *Epilepsy Behav.* **44**, 200-206 (2015).

#### 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.

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