



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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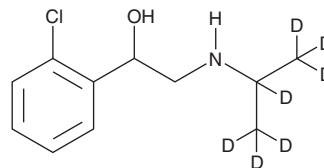
# PRODUCT INFORMATION



## (±)-Clorprenaline-d<sub>7</sub>

Item No. 27614

**Formal Name:** 1-(2-chlorophenyl)-2-((propan-2-yl-d<sub>7</sub>)amino)ethan-1-ol  
**Synonym:** Isoprophenamine-d<sub>7</sub>  
**MF:** C<sub>11</sub>H<sub>9</sub>ClD<sub>7</sub>NO  
**FW:** 220.7  
**Chemical Purity:** ≥98% (Clorprenaline)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>7</sub>); ≤1% d<sub>0</sub>  
**Supplied as:** A 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

(±)-Clorprenaline-d<sub>7</sub> is intended for use as an internal standard for the quantification of clorprenaline by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

(±)-Clorprenaline-d<sub>7</sub> is supplied as a solid. A stock solution may be made by dissolving the (±)-clorprenaline-d<sub>7</sub> in the solvent of choice. (±)-Clorprenaline-d<sub>7</sub> is soluble in the organic solvent chloroform, which should be purged with an inert gas.

### Description

Clorprenaline is a  $\beta_2$ -adrenergic receptor agonist.<sup>1</sup> It reverses pilocarpine-induced constriction of isolated guinea pig trachea, rabbit lung, and bronchi of pithed dogs.<sup>2</sup> It has been detected in pork, beef, mutton, and chicken muscle food samples by UPLC-Q-orbitrap-HRMS.<sup>1</sup> Formulations containing clorprenaline have been used as partitioning agents and growth promoters in livestock.

### References

- Guo, C., Shi, F., Gong, L., *et al.* Ultra-trace analysis of 12  $\beta_2$ -agonists in pork, beef, mutton and chicken by ultrahigh-performance liquid-chromatography-quadrupole-orbitrap tandem mass spectrometry. *J. Pharm. Biomed. Anal.* **107**, 526-534 (2015).
- Powell, C.E., Gibson, W.R., and Swanson, E.E. The pharmacological action of 1-o-chlorophenyl-2-isopropylaminoethanol (isoprophenamine); A bronchodilator. *J. Am. Pharm. Assoc.* **45(12)**, 785-787 (1956).

#### 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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