# PRODUCT INFORMATION



## Cimbuterol

Item No. 31743

CAS Registry No.: 54239-39-3

Formal Name: 2-amino-5-[2-[(1,1-dimethylethyl)amino]-

1-hydroxyethyl]-benzonitrile

MF:  $C_{13}H_{19}N_3O$ FW: 233.3 **Purity:** ≥95% Supplied as: A solid Storage: -20°C Stability: ≥4 years

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

#### **Laboratory Procedures**

Cimbuterol is supplied as a solid. A stock solution may be made by dissolving the cimbuterol in the solvent of choice, which should be purged with an inert gas. Cimbuterol is slightly soluble in methanol and dichloromethane.

### Description

Cimbuterol is an agonist of  $\beta$ -adrenergic receptors ( $\beta$ -ARs),<sup>1,2</sup> It has been used as a standard for the simultaneous detection of multiple veterinary residues in commercial animal meat by LC-MS/MS.1 Cimbuterol has been used illicitly to promote growth and improve feed efficiency in livestock.

#### References

- 1. Shao, B., Jia, X., Zhang, J., et al. Multi-residual analysis of 16 β-agonists in pig liver, kidney and muscle by ultra performance liquid chromatography tandem mass spectrometry. Food Chem. 114(3), 1115-1121 (2009).
- 2. Robert, C., Gillard, N., Brasseur, P.-Y., et al. Rapid multi-residue and multi-class qualitative screening for veterinary drugs in foods of animal origin by UHPLC-MS/MS. Food Addit. Contam. A. 30(3), 443-457 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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