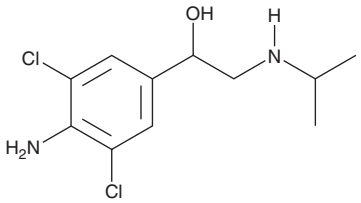
PRODUCT INFORMATION

Clenproperol

Item No. 46198

CAS Registry No.:	38339-11-6
Formal Name:	4-amino-3,5-dichloro-α-[[(1-methylethyl) amino]methyl]-benzenemethanol
MF:	$C_{11}H_{16}Cl_2N_2O$
FW:	263.2
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Clenproperol is supplied as a solid. A stock solution may be made by dissolving the clenproperol in the solvent of choice, which should be purged with an inert gas. Clenproperol is slightly soluble (0.1-1 mg/ml) in ethanol and soluble (≥10 mg/ml) in DMSO.

Description

Clenproperol is an agonist of the β_2-adrenergic receptor (β_2-AR).[1,2] It is commonly included as a standard alongside the β_2-AR agonist clenbuterol (Item No. 14985) in the analysis of potential contaminants in livestock meat, feed, or water.[2,3] Clenproperol has been found in a commercially available porcine liver sample.[3]

References

1. Casella, I., Ambrosio, C., Grò, M.C., *et al.* Divergent agonist selectivity in activating beta1- and beta2-adrenoceptors for G-protein and arrestin coupling. *Biochem. J.* **438(1)**, 191-202 (2011).
2. Ramos, F., Baeta, M.L., Reis, J., *et al.* Evaluation of the illegal use of clenbuterol in Portuguese cattle farms from drinking water, urine, hair and feed samples. *Food Addit. Contam. Part A Chem. Anal. Control Expo. Risk Assess.* **26(6)**, 814-820 (2009).
3. 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).

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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