LKT Laboratories, Inc.

Clenbuterol Hydrochloride

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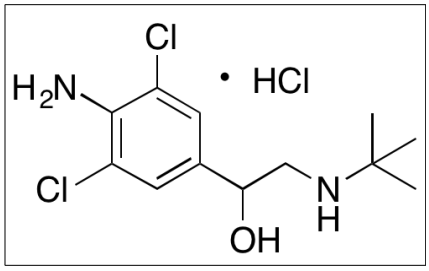
Product Information

Product ID C4517
CAS No. 21898-19-1
Chemical Name 4-Amino-alpha-((tert-butylamino)methyl)-3,5-dichlorobenzyl alcohol hydrochloride

Synonym Clenbuterol hydrochloride, Planipart hydrochloride, Spiropent, Ventipulmin



Formula $C_{12}H_{18}Cl_2N_2O \cdot HCl$
Formula Wt. 313.65
Melting Point 174-175.5°C
Purity ≥98%
Solubility

Bulk quanitites available upon request

Product ID	Size
C4517	25 mg
C4517	100 mg
C4517	250 mg

Store Temp Ambient
Ship Temp Ambient

Description Clenbuterol is an agonist at β2-adrenergic receptors. Clenbuterol exhibits neuroprotective and anti-inflammatory activities; it is also known for its ability to decrease adipose cell size and increase muscle fiber size. In vitro, clenbuterol upregulates histone demethylase JHDM2a through modulation of PKA/cAMP signaling. In vivo, this compound increases IGF signaling to induce hypertrophy in skeletal muscle. Additionally, clenbuterol inhibits kainic acid-induced apoptosis of hippocampal neurons, decreasing expression of inflammatory cytokines and increasing expression of BDNF and NGF in other animal models.

References

Li Y, He J, Sui S, et al. Clenbuterol upregulates histone demethylase JHDM2a via the β2-adrenoceptor/cAMP/PKA/p-CREB signaling pathway. Cell Signal. 2012 Dec;24(12):2297-306. PMID: 22820505.

Abo T, Iida RH, Kaneko S, et al. IGF and myostatin pathways are respectively induced during the earlier and the later stages of skeletal muscle hypertrophy induced by clenbuterol, a β2-adrenergic agonist. Cell Biochem Funct. 2012 Dec;30(8):671-6. PMID: 22696074.

Gleeson LC, Ryan KJ, Griffin EW, et al. The β2-adrenoceptor agonist clenbuterol elicits neuroprotective, anti-inflammatory and neurotrophic actions in the kainic acid model of excitotoxicity. Brain Behav Immun. 2010 Nov;24(8):1354-61. PMID: 20599496.