LKT Laboratories, Inc.

Arformoterol Tartrate

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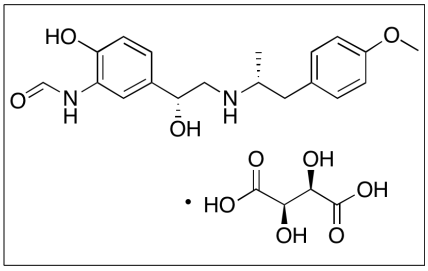
Product Information

Product ID A6922
CAS No. 200815-49-2
Chemical Name

Synonym

Formula $C_{19}H_{24}N_2O_4 \cdot C_4H_6O_6$
Formula Wt. 494.19
Melting Point
Purity ≥98%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A6922	5 mg	$82.70
A6922	10 mg	$137.90
A6922	25 mg	$248.10

Store Temp Ambient
Ship Temp Ambient

Description Arformoterol is the R,R enantiomer of formoterol. Arformoterol exhibits anti-inflammatory and anti-asthma activities, potentiating the effects of co-administered glucocorticoids in the treatment of asthma and chronic obstructive pulmonary disorder (COPD). Arformoterol activates ß2-adrenergic receptors and bitter taste receptors (TAS2Rs) in bronchi, inducing airway relaxation through ß2 adrenergic receptor downstream signaling effects on intracellular cAMP and Ca2+ levels. Additionally, arformoterol's activation of TAS2Rs is thought to involve inhibition of PI3K signaling. Arformoterol inhibits migration of human airway smooth muscle cells through other ß2 adrenergic receptor downstream signaling effects on PKA and vasodilator-stimulated phosphoprotein (VASP). In vitro, arformoterol inhibits phosphorylation of JNK, p38 MAPK, and the glucocorticoid receptor. TEST!!!!!!

References

Grassin-Delyle S, Abrial C, Fayad-Kobeissi S, et al. The expression and relaxant effect of bitter taste receptors in human bronchi. Respir Res. 2013 Nov 22;14:134. PMID: 24266887.

Goncharova EA, Goncharov DA, Zhao H, et al. ß2-adrenergic receptor agonists modulate human airway smooth muscle cell migration via vasodilator-stimulated phosphoprotein. Am J Respir Cell Mol Biol. 2012 Jan;46(1):48-54. PMID: 22210825.

Mercado N, To Y, Kobayashi Y, et al. p38 mitogen-activated protein kinase-γ inhibition by long-acting ß2 adrenergic agonists reversed steroid insensitivity in severe asthma. Mol Pharmacol. 2011 Dec;80(6):1128-35. PMID: 21917909.

Johnson M. Beta2-adrenoceptors: mechanisms of action of beta2-agonists. Paediatr Respir Rev. 2001 Mar;2(1):57-62. PMID: 16263481.