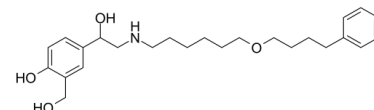


Data Sheet

Product Name:	Salmeterol
Cat. No.:	CS-2815
CAS No.:	89365-50-4
Molecular Formula:	C ₂₅ H ₃₇ NO ₄
Molecular Weight:	415.57
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 100 mg/mL (240.63 mM)



BIOLOGICAL ACTIVITY:

Salmeterol is a long-acting beta2-adrenergic receptor (beta 2AR) agonist used clinically to treat asthma. Target: beta2-Adrenergic Receptor Salmeterol is a long-acting beta2-adrenergic receptor agonist drug that is prescribed for the treatment of asthma and chronic obstructive pulmonary disease (COPD). salmeterol also binds with very high affinity at a second site, termed the "exosite", and that this exosite contributes to the long duration of action of salmeterol [1].

References:

[1]. Rong, Y., et al., Probing the salmeterol binding site on the beta 2-adrenergic receptor using a novel photoaffinity ligand, [(125)I]iodoazidosalmeterol. Biochemistry, 1999. 38(35): p. 11278-86.

CAIndexNames:

1,3-Benzenedimethanol, 4-hydroxy- 1-[[[6-(4-phenylbutoxy)hexyl]amino]methyl]-

SMILES:

OC1=CC=C(C(O)CNCCCCCOCCCCC2=CC=CC=C2)C=C1CO

Caution: Product has not been fully validated for medical applications. For research use only.

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