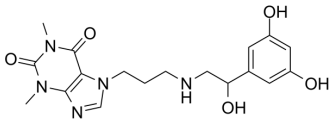
Reproterol

Cat. No.:	HY-135490
CAS No.:	54063-54-6
Molecular Formula:	$C_{18}H_{23}N_5O_5$
Molecular Weight:	389.41
Target:	Adrenergic Receptor; Phosphodiesterase (PDE)
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Reproterol is a dual acting β2-adrenoceptor agonist and PDE inhibitor. The theophylline constituent of Reproterol inhibits phosphodiesterase activity induced by adenylyl cyclase. Reproterol has the potential for asthma research[1][2].
IC_{50} & Target	β2 adrenoceptor

REFERENCES

[1]. Uwe R Juergens, et al. Different mechanisms of action of beta2-adrenergic receptor agonists: a comparison of reproterol, fenoterol and salbutamol on monocyte cyclic-AMP and leukotriene B4 production in vitro. Eur J Med Res. 2004 Jul 30;9(7):365-70.

[2]. C G Georgakopoulos, et al. Excretion study of the beta2-agonist reproterol in human urine. J Chromatogr B Biomed Sci Appl. 1999 Apr 16;726(1-2):141-8.

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