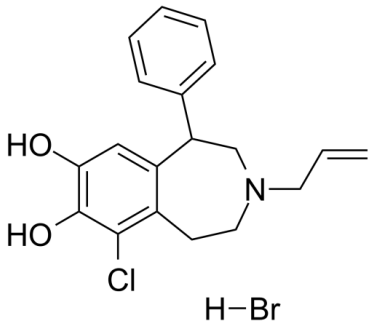
Data Sheet

Product Name:	SKF-82958 (hydrobromide)
Cat. No.:	CS-4595
CAS No.:	74115-01-8
Molecular Formula:	C19H21BrClNO2
Molecular Weight:	410.73
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 102.5 mg/mL (249.56 mM)



BIOLOGICAL ACTIVITY:

SKF-82958 hydrobromide is a D1/D5 receptor full agonist. IC50 value: Target: D1/D5 receptor in vitro: Neuropeptide and immediate early gene expression in striatonigral neurons of the normosensitive striatum is induced by mixed D1 receptor SKF-82958, which induces behavioral activity and preprodynorphin (PPD) and substance P (SP) gene expression in medium spiny neurons in the dorsal, and especially, in the ventral striatum. in vivo:Quantitative in situ hybridization was used to examine the contribution of muscarinic receptors to the transynaptic regulation of striatal gene expression induced by D1receptor activation. The acute injection of the full D1 agonist, SKF-82958, would induce PPD, SP and PPE mRNA expression in the intact rat striatum.

PROTOCOL (Extracted from published papers and Only for reference)

Animal administration [1] Adult male Wistar rats (240-270 g) were injected (s.c.) saline or one dose of SKF-82958 (0.02, 0.1, 0.5 and 2 mg/kg). SKF-82958 were freshly prepared in physiological saline.

References:

[1]. Wang JQ, et al. The Full D1 Dopamine Receptor Agonist SKF-82958 Induces Neuropeptide mRNA in the Normosensitive Striatum of Rats: Regulation of D1/D2 Interactions by Muscarinic Receptors.J Pharmacol Exp Ther. 1997 May;281(2):972-82.

CAIndexNames:

1H-3-Benzazepine-7,8-diol, 6-chloro-2,3,4,5-tetrahydro-1-phenyl-3-(2-propen-1-yl)-, hydrobromide (1:1)

SMILES:

OC1=C(O)C=C2C(C3=CC=CC=C3)CN(CC=C)CCC2=C1Cl.[H]Br

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA