Product Name: Alverine citrate
CAS No.: 5560-59-8
Cat. No.: HY-B0500
MWt: 473.56
Formula: C26H35NO7
Purity : >98%

Solubility: DMSO

Mechanisms: Pathways: GPCR/G protein; Target: 5-HT Receptor
Pathways: Neuronal Signaling; Target: 5-HT Receptor

Biological Activity:
Alverine Citrate (NSC35459) is a drug used for functional gastrointestinal disorders.
Target: 5-HT Receptor
Alverine is a drug used for functional gastrointestinal disorders. Alverine acts directly on the muscle in the gut, causing it to relax. Alverine Citrate (20 mg kg(-1)) suppressed the effect of 5-HTP, but not that of 8-OH-DPAT. However, when injected intracerebroventricularly (75 microg/rat) alverine citrate reduced 8-OH-DPAT-induced enhancement of rectal distension-induced abdominal contractions. In-vitro binding studies revealed that alverine citrate had a high affinity for 5-HT1A receptors and a weak affinity for 5-HT3 and 5-HT4 subtypes [1]. Alverine may increase Ca influx during action potentials due to inhibition of the inactivation of L-type Ca channels, but may also suppress evoked activity by inhibiting the sensitivity of contractile proteins to Ca2+ [2]....

References: