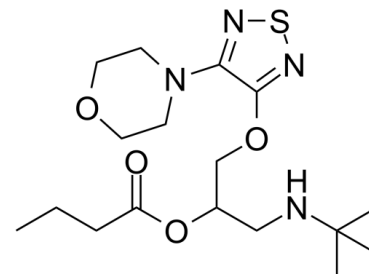


Data Sheet

| | |
|---------------------------|---|
| Product Name: | (RS)-Butyryltimolol |
| Cat. No.: | CS-7543 |
| Molecular Formula: | C ₁₇ H ₃₀ N ₄ O ₄ S |
| Molecular Weight: | 386.51 |
| Target: | Adrenergic Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Solubility: | DMSO : 100 mg/mL (258.73 mM; Need ultrasonic) |



BIOLOGICAL ACTIVITY:

(RS)-Butyryltimolol is the racemate of Butyryltimolol. Butyryltimolol, an effective prodrug of Timolol, improves the corneal penetration of Timolol^[1]. Butyryltimolol is a β -adrenergic blocker^[2]. **In Vitro:** Butyryltimolol, a prodrug of Timolol, is equally effective as 240-min nasolacrimal blockade in enhancing ocular drug absorption^[1].

References:

[1]. Chang SC, et al. Relative effectiveness of prodrug and viscous solution approaches in maximizing the ratio of ocular to systemic absorption of topically applied timolol. *Exp Eye Res.* 1988 Jan;46(1):59-69.

[2]. Potter DE, et al. Ocular and cardiac beta-antagonism by timolol prodrugs, timolol and levobunolol. *Curr Eye Res.* 1988 Aug;7(8):755-9.

CAIndexNames:

Butanoic acid, 1-[[[(1,1-dimethylethyl)amino]methyl]-2-[[4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl]oxy]ethyl ester

SMILES:

CCCC(OC(CNC(C)(C)C)COC1=NSN=C1N2CCOCC2)=O

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