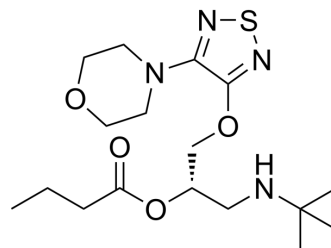


## Butyryltimolol

Cat. No.:	HY-102032		
CAS No.:	106351-79-5		
Molecular Formula:	C <sub>17</sub> H <sub>30</sub> N <sub>4</sub> O <sub>4</sub> S		
Molecular Weight:	386.51		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (258.73 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5873 mL	12.9363 mL	25.8726 mL
	5 mM	0.5175 mL	2.5873 mL	5.1745 mL
	10 mM	0.2587 mL	1.2936 mL	2.5873 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

Description	Butyryltimolol, an effective precursor of Timolol, improves the corneal penetration of Timolol <sup>[1]</sup> . Butyryltimolol is a β-adrenergic blocker <sup>[2]</sup> .
IC <sub>50</sub> & Target	β adrenergic receptor
In Vitro	Butyryltimolol, a prodrug of Timolol, is equally effective as 240-min nasolacrimal blockade in enhancing ocular drug absorption <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### 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.

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

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