



LKT Laboratories, Inc.

ATB 346

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## Product Information

Product ID A7604

CAS No. 1226895-20-0

### Chemical Name

Synonym ATB-346

Formula  $C_{21}H_{19}NO_3S$

Formula Wt. 365.45

Melting Point

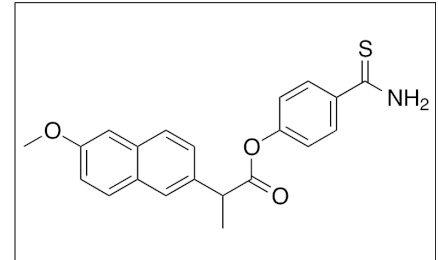
Purity  $\geq 99\%$

Solubility DMSO:  $\geq 52$  mg/mL

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** ATB346 is a hydrogen sulfide-releasing non-steroidal anti-inflammatory drug (NSAID) that inhibits COX and suppresses prostaglandin production. ATB346 exhibits anti-inflammatory, analgesic, antinociceptive, immunomodulatory, and neuroprotective activities. In vivo, this compound attenuates zymosan-induced inflammation, nociception, and immune signaling. ATB346 also prevents ligature-induced periodontal bone loss and pathologies, potentially by suppressing increases in pro-inflammatory cytokine levels. Additionally, ATB346 decreases edema and improves neurological function in animal models of traumatic brain injury (TBI). ATB346 is a hydrogen sulfide releasing derivative of naproxen.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
A7604	1 mg	\$62.00
A7604	5 mg	\$185.70
A7604	25 mg	\$619.40

**References** Dief AE, Mostafa DK, Sharara GM, et al. Hydrogen sulfide releasing naproxen offers better anti-inflammatory and chondroprotective effect relative to naproxen in a rat model of zymosan induced arthritis. *Eur Rev Med Pharmacol Sci.* 2015 Apr;19(8):1537-46. PMID: 25967731.

Herrera BS, Coimbra LS, da Silva AR, et al. The H<sub>2</sub>S-releasing naproxen derivative, ATB-346, inhibits alveolar bone loss and inflammation in rats with ligature-induced periodontitis. *Med Gas Res.* 2015 Feb 27;5:4. PMID: 25755876.

Campolo M, Esposito E, Ahmad A, et al. Hydrogen sulfide-releasing cyclooxygenase inhibitor ATB-346 enhances motor function and reduces cortical lesion volume following traumatic brain injury in mice. *J Neuroinflammation.* 2014 Dec 4;11:196. PMID: 25472548.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.