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## Product Data Sheet

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Product Name: Atreleuton

Cat. No.: GC35425

### Chemical Properties

Cas. No. 154355-76-7

SMILES O=C(N)N([C@H](C)C#CC1=CC=C(CC2=CC=C(F)C=C2)S1)OFormula  $C_{16}H_{15}FN_2O_2S$  M.Wt 318.37

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

Atreleuton is an inhibitor of 5-lipoxygenase (5-LO;  $IC_{50} = 23$  nM in rat basophil leukemia cell lysates).<sup>1</sup> It inhibits leukotriene B<sub>4</sub> formation induced by A23187 in isolated human whole blood ( $IC_{50} = 160$  nM). Atreleuton inhibits LTE<sub>4</sub> and LTB<sub>4</sub> biosynthesis in the peritoneal cavity in a rat model of anaphylaxis ( $ED_{50}$ s = 1.4 and 0.6 mg/kg, respectively) and bronchoconstriction induced by arachidonic acid in anesthetized guinea pigs ( $ED_{50} = 3$  mg/kg).<sup>2</sup>

1. Brooks, C.D., Stewart, A.O., Basha, A., et al. (R)-(+)-N-[3-[5-[(4-fluorophenyl)methyl]-2-thienyl]-1-methyl-2-propynyl]-N-hydroxyurea (ABT-761), a second-generation 5-lipoxygenase inhibitor. *J. Med. Chem.* 38(24)4768-4778(1995)  
 2. Bell, R.L., Harris, R.R., Malo, P.E., et al. ABT-761 attenuates bronchoconstriction and pulmonary inflammation in rodents. *J. Pharmacol. Exp. Ther.* 280(3)1366-1373(1997)

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

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