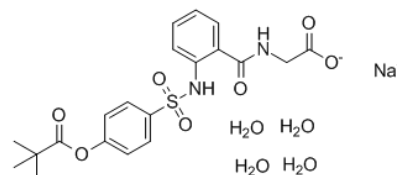


**Product Name** : Sivelestat sodium tetrahydrate  
**Cat. No.** : PC-45266  
**CAS No.** : 201677-61-4  
**Molecular Formula** : C<sub>20</sub>H<sub>29</sub>N<sub>2</sub>NaO<sub>11</sub>S  
**Molecular Weight** : 528.5059  
**Target** : Elastase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Sivelestat sodium tetrahydrate (EI-546;LY-544349;ONO-5046) is a potent, specific and competitive inhibitor of human **neutrophil elastase** with IC<sub>50</sub> of 44 nM.

Sivelestat (EI-546;LY-544349;ONO-5046) also inhibits leukocyte elastase obtained from rabbit, rat, hamster and mouse, does not inhibit trypsin, thrombin, plasmin, plasma kallikrein, pancreas kallikrein, chymotrypsin and cathepsin G (>10 μM).

Sivelestat (EI-546;LY-544349;ONO-5046) attenuates LPS-induced acute lung inflammation in the hamster.

## References

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Yasui S, et al. *Eur Respir J*. 1995 Aug;8(8):1293-9.

Sakamaki F, et al. *Am J Respir Crit Care Med*. 1996 Jan;153(1):391-7.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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