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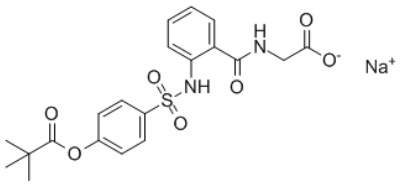
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Sivelestat sodium
Cat. No.	:	PC-45265
CAS No.	:	150374-95-1
Molecular Formula	:	$C_{20}H_{21}N_2NaO_7S$
Molecular Weight	:	456.4447
Target	:	Elastase
Solubility	:	10 mM in DMSO



Biological Activity

Sivelestat (EI-546, LY-544349, ONO-5046) sodium is a potent, specific and competitive inhibitor of human **neutrophil elastase** with IC50 of 44 nM.
Sivelestat 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 uM).
Sivelestat attenuates LPS-induced acute lung inflammation in the hamster.

References

Kawabata K, et al. ***Biochem Biophys Res Commun***. 1991 Jun 14;177(2):814-20.

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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