

# Sivelestat (sodium tetrahydrate)

Catalog No: tcsc3380



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

201677-61-4

**Formula:**

$C_{20}H_{29}N_2NaO_{11}S$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

Elastase

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 100$  mg/mL (189.21 mM)

**Alternative Names:**

EI546 sodium tetrahydrate;LY544349 sodium tetrahydrate;ONO5046 sodium tetrahydrate

**Observed Molecular Weight:**

528.51

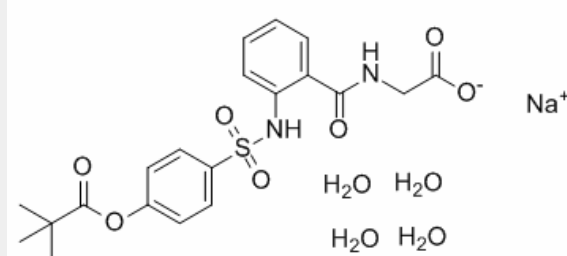
## Product Description

Sivelestat(ONO5046; LY544349; EI546) is a competitive inhibitor of human neutrophil elastase(IC<sub>50</sub> = 44 nM; K<sub>i</sub>=200 nM); also inhibited leukocyte elastase obtained from rabbit, rat, hamster and mouse.

IC<sub>50</sub> value: 44 nM [1]

Target: neutrophil elastase

ONO-5046 did not inhibit trypsin, thrombin, plasmin, plasma kallikrein, pancreas kallikrein, chymotrypsin and cathepsin G even at 100 microM. In in vivo studies, ONO-5046 suppressed lung hemorrhage in hamster (ID<sub>50</sub> = 82 micrograms/kg) by intratracheal administration and increase of skin capillary permeability in guinea pig (ID<sub>50</sub> = 9.6 mg/kg) by intravenous administration, both of which were induced by human neutrophil elastase [1]. Sivelestat sodium hydrate is an anti-neutrophil elastase inhibitor and may be one of the treatment options for acute respiratory failure due to pneumocystis pneumonia in AIDS patients [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!