

Sivelestat (sodium)

Catalog No: tcsc2920



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

150374-95-1

Formula:

$C_{20}H_{21}N_2NaO_7S$

Pathway:

Metabolic Enzyme/Protease

Target:

Elastase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

ONO5046-Na;Sodium sivelestat;EI546 sodium;LY544349 sodium

Observed Molecular Weight:

456.44

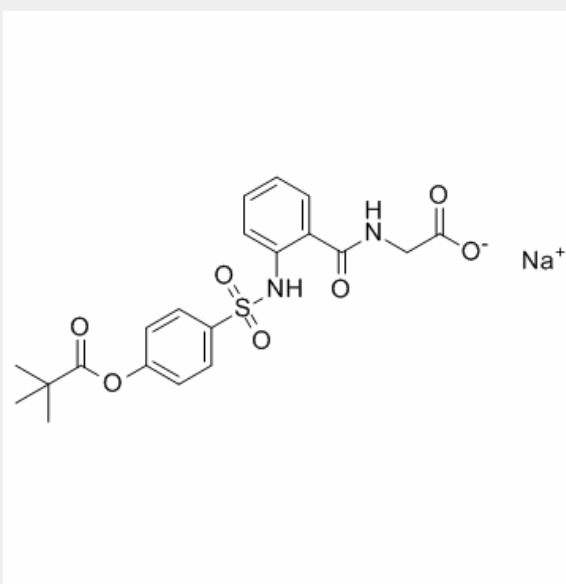
Product Description

Sivelestat sodium(ONO5046; LY544349; EI546) is a competitive inhibitor of human neutrophil elastase(IC₅₀ = 44 nM; K_i=200 nM); also inhibited leukocyte elastase obtained from rabbit, rat, hamster and mouse.

IC50 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 (ID50 = 82 micrograms/kg) by intratracheal administration and increase of skin capillary permeability in guinea pig (ID50 = 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!