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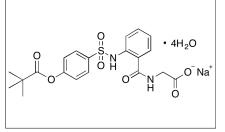
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Product Information

Product ID S3584 CAS No. 201677-61-4 Chemical Name

Synonym

Formula C₂₀H₂₁N₂O₇S Na · 4H₂O Formula Wt. 528.51 Melting Point Purity ≥99% Solubility 10 mM in MeOH, 2 mM in H2O



Pricing and Availability Bulk quanitites available upon request

Product ID	Size	List Price
S3584	5 mg	\$92.30
S3584	25 mg	\$359.70

Store Temp Ambient Ship Temp Ambient

Description Sivelestat is an inhibitor of neutrophil elastase that exhibits cardioprotective, anti-inflammatory, and anticancer activities. In vitro, sivelestat decreases superoxide dismutase (SOD) adduct formation and in vivo, it decreases SOD levels, resulting in a decrease in myocardial infarction size and improvement in left ventricular contractility. In other cellular models, sivelestat decreases induction of iNOS and production of NO and also prevents activation of NF-κB and expression of the IL-1 receptor. Sivelestat inhibits contraction of tracheal and bronchial rings, decreasing airway hyperresponsiveness. Additionally, this compound inhibits release of TGF-α, PDGF-AA, PDGF-BB, and VEGF in esophageal carcinoma cells, inhibiting cell invasion and proliferation.

References Aune SE, Yeh ST, Kuppusamy P, et al. Sivelestat attenuates myocardial reperfusion injury during brief low flow postischemic infusion. Oxid Med Cell Longev. 2013;2013:279847. PMID: 23766850.

Araki Y, Matsumiya M, Matsuura T, et al. Sivelestat suppresses iNOS gene expression in proinflammatory cytokinestimulated hepatocytes. Dig Dis Sci. 2011 Jun;56(6):1672-81. PMID: 21221803.

Wada Y, Yoshida K, Tsutani Y, et al. Neutrophil elastase induces cell proliferation and migration by the release of TGF-alpha, PDGF and VEGF in esophageal cell lines. Oncol Rep. 2007 Jan;17(1):161-7. PMID: 17143494.

Takayama N, Uchida K. Epithelium-dependent and -independent inhibitory effects of sivelestat, a neutrophil elastase inhibitor, on substance P-induced contraction of airway smooth muscle in lipopolysaccharide-treated guinea-pigs. J Smooth Muscle Res. 2005 Oct;41(5):257-70. PMID: 16428865.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.