

Product Datasheet

Stepronin

Catalog No. **BP-00021** · CAS **72324-18-6** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-15**

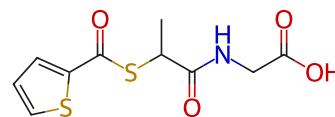
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Target Chloride Channel	Research area Endocrinology
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Molecular formula **C₁₀H₁₁NO₄S₂**

Molecular weight **273.3290**

STRUCTURE



DESCRIPTION

Stepronin (Prostenoglycine) is an orally active expectorant (inhalation administration is preferable to oral administration). Stepronin inhibits airway secretion in vitro by reducing Cl⁻ secretion from epithelial cells and mucus glycoprotein secretion from submucosal glands.

BIOLOGICAL ACTIVITY

In Vitro

Stepronin (0.1-100 μM; 20 min) induces significant reductions in ISOP(Isoproterenol)-evoked SCC (short circuit current) value in a dose-dependent manner in canine tracheal epithelium.

Stepronin (10-100 μM; 20 min) significantly inhibits the basal secretion and ISOP-evoked PD (potential difference) value in a dose-dependent manner in canine tracheal epithelium.

Stepronin (100 μM; 20 min) significantly inhibits ISOP-induced [3H]-glycoconjugate secretion in submucosal glands.

SOLUBILITY

Soluble in DMSO : ≥ 250 mg/mL

REFERENCES

[1]. Yamada K, et al. An expectorant, stepronin, reduces airway secretion in vitro. *Respiration*. 1994;61(1):42-7.

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