

KALLISTOP™

Product No. ADG503B

Description

KALLISTOP™ a 4-amidinoanilide derivative of phenyl-2-aminobutyric acid is a relatively selective inhibitor of plasma kallikrein (PK). The inhibitory effect depends on the pH-value. It is increased below pH 7.0 and is decreased above pH 8.0.

Chemistry**Structural formula:****Formula:** C₂₄H₂₆N₄O₃S • HCl**MW:** 487.0**Chemical name:** 2-Tosyl-(D,L)-homophenyl-alanine-4-amidinoanilide hydrochloride**Purity:** 99.9 % as determined by HPLC**Solubility:** readily soluble in organic solvents (methanol, ethanol, DMSO), soluble in H₂O and in aqueous buffers up to 4 mM.**Known Applications**

KALLISTOP™ is employed to inhibit plasma kallikrein (PK) competitively.

KALLISTOP™ has been used in chromogenic assays for the determination of factor XIIa activity in plasma with a chromogenic substrate for Factor XIIa (H-D-HHT-Gly-Arg-pNA). KALLISTOP™ suppresses undesired cleavage of the substrate by plasma kallikrein. [2]

Distributed by:

IMMUNOLOGIE • MOLEKULARBIOLOGIE
BIOCHEMIE • PRODUKTE UND SYSTEMEGerhart-Hauptmann-Str. 48
69221 Dossenheim

Tel +49 6221 868023

Fax +49 6221 8680255

www.loxo.de - info@loxo.de

Inhibitory Activity

Ki constants: The following table shows the inhibition of different serine proteinases.

Enzyme	Ki [μM]
Trypsin	1.3
Thrombin	170
Factor Xa	31
Factor XIIa	100
Plasmin	10
Urokinase	17
Two chain tPA	36
Plasma Kallikrein	0.7
Glandular Kallikrein	100
Batroxobin (B. atrox)	5.7
Batroxobin (B. moojeni)	11.7
PCa	79
Tryptase	12

Presentation

Screw-capped amber glass vial containing 5 mg of lyophilized inhibitor. Solubility in 1% DMSO/water: ≥ 2 mg/mL.

Storage

Store at 2 - 8 °C. It is recommended to aliquote the inhibitor, avoid freeze-thaw cycles.

References

1. Synthese von α-(Arylsulfonylamino)-ω-phenylalkylcarbonsäure-3- und 4-amidinoaniliden. Vieweg H, Wagner G. Pharmazie 1983; 38: 818-820.
2. A new assay for the determination of factor XII in plasma using a chromogenic substrate and a selective inhibitor of plasma kallikrein. Stürzebecher J, Svendsen L, Eichenberger R, Markwardt F. Thromb Res 1989; 55: 709-15.

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

For research use only!

ADG503B©10072019