

**KALLISTOP™**

Product No. ADG503

**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:** C<sub>24</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>S • 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 H<sub>2</sub>O 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:**

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**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**

Clear screw-capped vial of 1 µmole KALLISTOP™ (concentration 1 mM). Aqueous solution contains 10 % DMSO.

**Storage**

Store frozen at -20 °C. Avoid contamination by microorganism. It is recommended to aliquot the inhibitor, avoid freeze-thaw cycles.

**References**

1. Synthese von  $\alpha$ -(Arylsulfonylamino)- $\omega$ -phenyl-alkylcarbonsäure-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!

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