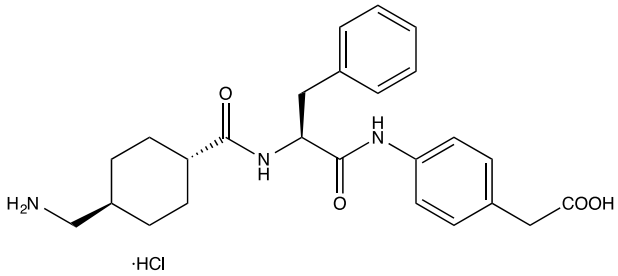
Catalog # 10-2220

PKSI-527

CAS# 128837-71-8

trans-4-Aminomethylcyclohexanecarbonyl-phenylalanyl-4-carboxymethylanilide

Lot # FBM2043



Selective plasma kallikrein inhibitor (K_i = 0.81 µM)[1] that can be used for affinity purification of kallikrein[2]. Synergizes with NO donors to produce antithrombic effects *ex-vivo*.[3] Suppresses collagen-induced arthritis in mouse models.[4]

1) Wanaka *et al*. (1992), *Synthesis of trans-4-aminomethylcyclohexanecarbonyl-L- and –D-phenylalanine-4-carboxymethylanilide and examination of their inhibitory activity against plasma kallikrein*; Chem. Pharm. Bull., **40** 1814

2) Tada *et al*. (2001), *Isolation of plasma kallikrein by high efficiency affinity chromatography and its characterization*; Biol. Pharm. Bull., **24** 520

3) Ikarugi *et al*. (2005), *Synergistic antithrombotic effect of a combination of NO donor and plasma kallikrein inhibitor*; Thromb. Res., **116** 403

4) Fujimori *et al*. (1993), *Effects of a highly selective plasma kallikrein inhibitor on collagen-induced arthritis in mice*; Agents Actions, **39** 42

PHYSICAL DATA

Molecular Weight:	474.01
Molecular Formula:	$C_{25}H_{31}N_3O_4 \cdot HCl$
Purity:	97% by HPLC
	NMR: (Conforms)
Solubility:	Water (up to 5 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 3 months.

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