

Product Data Sheet

Product Name: Icatibant (acetate)

Cat. No.: GC43888

Chemical Properties

Cas. No. 138614-30-9

SMILES O=C(N1[C@](CCCC2)([H])[C@]2([H])C[C@H]1C(N[C@H](C(O)=O)CCCN(C(N)=N)=O)[C@@H]3N(C([C@H](CO)NC([C@H](CC4=CC=CS4)NC(CNC([C@@H]5C[C@@H](O)CN5C([C@H]6N(C([C@@H](NC([C@H](N)CCCN(C(N)=N)=O)CCCN(C(N)=N)=O)CCC6)=O)=O)=O)=O)CC7=C(C=CC=C7)C3.OC(C)=O

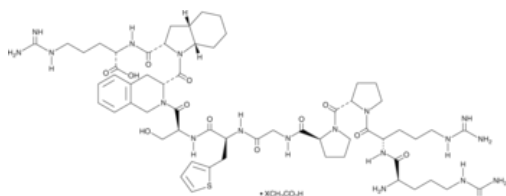
Formula C₅₉H₈₉N₁₉O₁₃S•XC₂H₄O₂ M.Wt 1304.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 0.25 mg/ml, PBS (pH 7.2): 10 mg/ml Storage -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Icatibant is a synthetic peptide antagonist of the bradykinin B₂ receptor with IC₅₀ and K_i values of 1.07 and 0.798 nM, respectively, in guinea pig ileal cell membranes. It inhibits bradykinin-induced contractions in isolated guinea pig ileum and pulmonary arteries as well as in rat uterus (IC₅₀s = 11, 5.4, and 4.9 nM, respectively). In vivo, icatibant inhibits bronchoconstriction induced by bradykinin in a guinea pig model (ID₅₀s = 13.4 and 31.8 pmol/kg, i.v., for pulmonary resistance and dynamic lung compliance, respectively). Icatibant (30 µg, i.v.) also reduces vascular permeability in the footpad and intestine in a mouse model of hereditary angioedema. Formulations containing icatibant have been

Caution: Product has not been fully validated for medical applications. For research use only.

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used for the treatment of hereditary angioedema.

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