

Product Data Sheet

Product Name: BIO-1211 (trifluoroacetate salt)

Cat. No.: GC49724

Chemical Properties

Cas. No. N/A

SMILES CC(C=CC=C1)=C1NC(NC(C=C2)=CC=C2CC(N[C@@H](CC(C)C)C(N[C@@H](CC(O)=O)C(N[C@@H](C(C)C)C(N3[C@@H](CCC3)C(O)=O)=O)=O)=O)=O.O=C(F)(F)F)=O

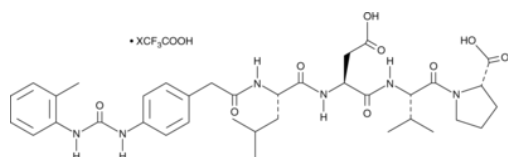
Formula C₃₆H₄₈N₆O₉ • XCF₃COOH M.Wt 708.8

Solubility DMSO: soluble Storage -20°C

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

BIO-1211 is a peptide inhibitor of $\alpha 4\beta 1$ integrin ($IC_{50} = 0.004 \mu M$).¹ It is selective for $\alpha 4\beta 1$ integrin over $\alpha 4\beta 7$ ($IC_{50} = 2 \mu M$), as well as $\alpha 1\beta 1$, $\alpha 5\beta 1$, $\alpha 6\beta 1$, $\alpha L\beta 2$, and $\alpha IIb\beta 3$ ($IC_{50}s = >100 \mu M$ for all). BIO-1211 binds to $\alpha 4\beta 1$ ($IC_{50} = 1 nM$) and inhibits Jurkat cell adhesion ($IC_{50} = 4 nM$). Inhaled administration of BIO-1211 (3 mg/animal) prevents carbachol-induced airway hyperresponsiveness in an ovine model of allergy-induced asthma.

1. Lin, K.c., Ateeq, H.S., Hsiung, S.H., et al. Selective, tight-binding inhibitors of integrin $\alpha 4\beta 1$ that inhibit allergic airway responses. *J. Med. Chem.* 42(5)920-934(1999)

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

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