Antileukinate

Cat. No.:	HY-125567
CAS No.:	138559-60-1
Molecular Formula:	$C_{45}H_{66}N_{18}O_7S$
Molecular Weight:	1003.19
Sequence Shortening:	Ac-RRWWCR-NH2
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Antileukinate, a hexapeptide, is a potent inhibitor of CXC-chemokine receptor (CXCR). Antileukinate inhibits neutrophil chemotaxis and activation. Antileukinate can be used for the research of acute inflammation and injury[1][2][3].
In Vitro	Antileukinate inhibits the binding of human eotaxin to human eosinophils with an IC_{50} of 8.2 μM[2]. Antileukinate (10-100 μM; 2 hours) significantly suppresses eosinophil chemotaxis to human eotaxin[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Antileukinate (52.63 mg/kg; s.c.) protectes mice against acute pancreatitis and associated lung injury[1]. Antileukinate (5mg/kg; s.c.) inhibits the interaction between murine eotaxin and murine eosinophil[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Swiss mice (20-25g)[1]
Dosage:	52.63 mg/kg
Administration:	Subcutaneous injection
Result:	Reduced pancreatic edema induced by Caerulein (50 μg/kg).

REFERENCES

[1]. Madhav Bhatia, et al. Treatment with antileukinate, a CXCR2 chemokine receptor antagonist, protects mice against acute pancreatitis and associated lung injury. Regul Pept. 2007 Jan 10;138(1):40-8.

[2]. Yuji Fukuno, et al. Chemokine receptor inhibitor, Antileukinate, suppressed ovalbumin-induced eosinophilic inflammation in the airway. Cytokine. 2003 Jun 7;22(5):116-25.

[3]. S HayashiY, et al. Antileukinate, a hexapeptide inhibitor of CXC-chemokine receptor, suppresses bleomycin-induced acute lung injury in mice. Lung. 2002;180(6):339-48.

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

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