

Product Datasheet

BIRT-377

Catalog No. **BP-02279** · CAS **213211-10-0** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-04**

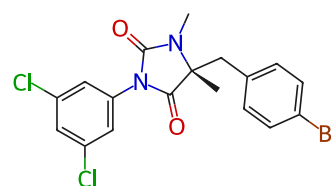
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Target Integrin; Interleukin Related	Research area Inflammation/Immunology
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Molecular formula **C₁₈H₁₅BrCl₂N₂O₂**

Molecular weight **442.1340**

STRUCTURE



DESCRIPTION

BIRT 377 is a potent and orally bioavailable inhibitor of the interaction between intercellular adhesion molecule-1 (ICAM-1) and lymphocyte function-associated antigen-1 (LFA-1). BIRT 377 also inhibits the production of IL-2 in vivo. BIRT 377 can be used for researching inflammatory and immune disorders[1].

BIOLOGICAL ACTIVITY

In Vitro

BIRT 377 (20 μM, 6 h) inhibits the mRNA and protein expression of EMT-related markers ZEB2 and Vimentin in HT-29 cell when cocultured with LAD2 cell.

BIRT 377 (20 μM, 24 h) inhibits the cell migration of HT-29, when cocultured with LAD2.

In Vivo

BIRT 377 (3-10 mg/kg, po, once daily for 14 days) inhibits the production of human IgG in hPBMC-injected mouse models, with an effect comparable to that of anti-LFA-1 antibodies.

SOLUBILITY

soluble in DMSO

In vitro DMSO : 100 mg/mL

REFERENCES

[1]. Kelly TA, et al. Cutting edge: a small molecule antagonist of LFA-1-mediated cell adhesion. J Immunol. 1999;163(10):5173-5177.

[2]. Lanzloth R, et al. Mast cells interact directly with colorectal cancer cells to promote epithelial-to-mesenchymal transition[J]. bioRxiv, 2025: 2025.03. 19.644113.

[3]. Winkvist RJ, et al., The role of leukocyte function-associated antigen-1 in animal models of inflammation. Eur J Pharmacol. 2001 Oct 19;429(1-3):297-302.

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