

Catalog # 10-3780

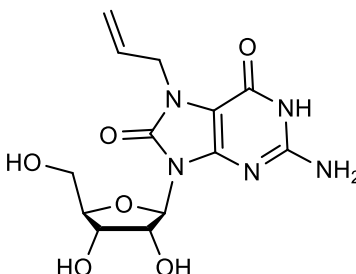
Loxoribine

CAS# 121288-39-9

7-Allyl-7,8-dihydro-8-oxoguanosine

RWJ-21757

Lot # X109527



Toll-like receptor 7 (TLR7) agonist.¹ A potent immunostimulant with a relatively broad spectrum of immunobiological activities including upregulation of the activity of B cells, T cells, NK cells, macrophages and LAK cells.² Induces secretion of IFN- γ by NK cells.³ Inhibits influenza A infection in chickens.⁴ Induces tumor regression by reversing Treg-induced immunosuppression.⁵

- 1) Heil *et al.* (2003), *The Toll-like receptor 7 (TLR7)-specific stimulus loxoribine uncovers a strong relationship within the TLR7, 8 and 9 subfamily*; Eur. J. Immunol., **33** 2987
- 2) Goodman *et al.* (1995), *A new approach to vaccine adjuvants. Immunopotentiality by intracellular T-helper-like signals transmitted by loxoribine* Pharm. Biotechnol., **6** 581
- 3) Girart *et al.* (2007), *Engagement of TLR3, TLR7 and NKG2D regulate IFN-gamma secretion but not NKG2D-mediated cytotoxicity by human NK cells stimulated with suboptimal doses of IL-12*; J. Immunol., **179** 3472
- 4) Stewart *et al.* (2012), *Toll-like receptor 7 ligands inhibit influenza A infection in chickens*; J. Interferon Cytokine Res., **32** 46
- 5) Wang *et al.* (2015), *The TLR7 agonist induces tumor regression both by promoting CD4-T cells proliferation and by reversing T regulatory cell-mediated suppression via dendritic cells*; Oncotarget, **6** 1779

PHYSICAL DATA

Molecular Weight:	339.30
Molecular Formula:	C ₁₃ H ₁₇ N ₅ O ₆
Purity:	96% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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