

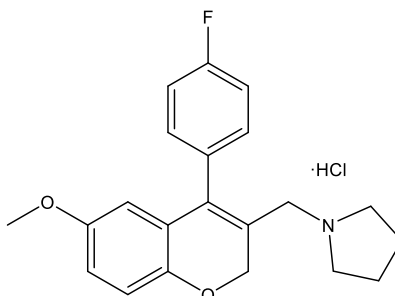
Catalog # 10-4895

AX-024

CAS# 1704801-24-0

1-[[4-(4-Fluorophenyl)-6-methoxy-2H-chromen-3-yl]methyl]pyrrolidine hydrochloride

Lot # FBS2048



AX-024 is a potent ($IC_{50} \sim 1$ nM) and specific inhibitor of T cell antigen receptor (TCR)-dependent T cell activation. It inhibited neither B cell proliferation triggered by B cell antigen receptor (BCR), TLR4, CD40 agonists nor IL-2-dependent proliferation of T lymphoblasts. AX-024 binds to the SH3.1 domain of the adaptor protein Nck blocking its interaction with the CD3 ϵ subunit on the T cell antigen receptor. AX-024 displayed protective effects in mouse models of psoriasis, allergic asthma, and multiple sclerosis. Importantly, the therapeutic effect of AX-024 persisted after removal of the drug in contrast to fingolimod suggesting a persistent modification of autoimmune T cells. Currently in clinical trials.

- 1) Borroto *et al.* (2016), *First-in-class inhibitor of the T cell receptor for the treatment of autoimmune diseases*; *Sci. Transl. Med.*, **8** 370ra184

PHYSICAL DATA

Molecular Weight:	375.86
Molecular Formula:	C ₂₁ H ₂₂ FNO ₂ ·HCl
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL with warming); Water (10 mg/mL with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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