

## 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 $\epsilon$  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.

 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<sub>21</sub>H<sub>22</sub>FNO<sub>2</sub>·HCl Purity: >98% by HPLC NMR: (Conforms)

TAIVITE: (OOTIIOTITIS)

Solubility: DMSO (>25 mg/mL with warming); Water (10 mg/mL with warming)

Physical Description: White solic

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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