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Product Datasheet

AX-024

FBM-10-4895

Article Name	AX-024
Biozol Catalog Number	FBM-10-4895
Supplier Catalog Number	10-4895
Alternative Catalog Number	FBM-10-4895-5MG,FBM-10-4895-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	T cell antigen receptor (TCR)-dependent T cell activation inhibitor...
Molecular Weight	375.86
Purity	98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[1704801-24-0]
Formula	C21H22FNO2HCl
Application Notes	AX-024 is a potent (IC₅₀ ~ 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 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.