

Lead Discovery: Dual-Mechanism Protein Therapy for Inflammatory Control and 'Cold-to-Hot' Tumor Conversion

Korea Research Institute of Bioscience and Biotechnology(KRIBB)



ONCOLOGY

Lead

Product Type	rProtein
Indication	CRC(colorectal Cancer)/ Solid tumor(including CAC)
Target	****
MoA(Mechanism of Action)	Reprogramming pro-tumor M2 macrophages into anti-tumor M1 macrophages and promoting IL-12 expression to convert the tumor microenvironment (TME) from 'cold' to 'hot', thereby maximizing the anti-cancer activity of T cells (CD8 ⁺) and NK cells.
Competitiveness	• Mechanism: Triggers the anti-tumor immune system by inducing the activation of anti-tumor M1 macrophages. • Efficacy: Converts "cold tumors" into "hot tumors" through a multimodal mechanism that simultaneously stimulates both innate and adaptive immunity, delivering a differentiated, powerful anti-tumor effect. • Safety: Highly biocompatible, microbiota-derived proteint with low systemic toxicity, ideal for long-term and combination therapies.
Development Stage	Lead
Route of Administration	• Current (<i>In Vivo</i>): Intraperitoneal (IP) injection • Target (Clinical): Subcutaneous (SC) injection

Any unauthorized distribution or reproduction of this material is strictly prohibited.