## Development of lead immunotherapy agent for cancer using IL-36 receptor agonist antibody

## **DGIST**



ONCOLOGY	Hit
Product Type	Agonist full IgG antibody
Indication	ICB refractory melanoma
Target	Interleukin 36 receptor
MoA(Mechanism of Action)	Degradation of amplified, overexpressed and skipped mutation of MET
Competitiveness	<ul> <li>Induction of IL-36 receptor-mediated signaling by inducing proximity to the IL-36 receptor subunit</li> <li>Induction of maturation and activation of dendritic cells</li> <li>Induction of differentiation of naïve T cells into tumor-specific T cells and</li> <li>induce production and secretion of IFN-γ</li> <li>NK cell activation and induction of IFN-γ production and secretion</li> <li>Reduction of immunosuppressive cells within the tumor</li> </ul>
Development Stage	<ul> <li>Currently, there is no known treatment using IL-36 (including this IL-36 receptor agonist antibody, long-acting recombinant protein, etc.), so there is a high possibility of success in technology transfer and new drug development as a first-in-class treatment.</li> <li>IL-36 receptor agonist antibody can have a longer half-life in the body compared to the cytokine form.</li> <li>Compared to other technologies that can increase half-life (ex, Fc-fusion protein, PEGylation, etc.), agonist antibodies have a low possibility of causing immunogenicity, making it possible to develop IL-36-based therapeutics that combine both stability and safety.</li> </ul>
Route of Administration	Hit

