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(54) Title: COMPETITIVE DOMAIN ANTIBODY FORMATS THAT BIND INTERLEUKIN 1 RECEPTOR TYPE 1

(57) Abstract: The invention relates to dAb monomers that bind IL-1R1 and inhibit binding of IL-1 (*e.g.*, IL-1α and/or IL-1β) and IL-1ra to IL-1R1, and to ligands comprising such dAb monomers. The invention relates to protease resistand dAb monomers, and to ligands comprising protease resistant dAb monomers. The invention also relates to nucleic acids including vectors that encode the dAb monomers and ligand, to host cells that comprise the nucleic acids and to method for producing a dAb monomer or ligand. The invention also relates to pharmaceutical compositions that comprise the dAb monomers or ligands, and to therapeutic methods that comprise administering a dAb monomer of ligand.

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