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(54) Title: LIGANDS THAT BIND TGF-BETA RECEPTOR RII

(57) Abstract: The invention provides an anti-TGFbetaRII immunoglobulin single variable domain. Suitably, an anti-TGFbetaRII immunoglobulin single variable domain in accordance with the invention is one which binds to TGFbetaRII with a dissociation constant (Kd) in the range of 10pM to 50nM, preferably 10pM to 10nM, preferably 250pM to 10nM. Isolated polypeptides comprising an amino acid sequence that is at least 70% identical to at least one amino acid sequence selected from the group of: SEQ ID NOs: 1 to 23, wherein said isolated polypeptide binds to TGFbetaRII are also provided. The invention also provides a polypeptide, ligand or pharmaceutical composition for treating a disease associated with TGFbeta signalling and suitably a disease selected from the group of: tissue fibrosis, such as pulmonary fibrosis, including idiopathic pulmonary fibrosis, liver fibrosis, including cirrhosis and chronic hepatitis, rheumatoid arthritis, ocular disorders, or fibrosis of the skin, including keloid of skin, and kidney such as nephritis, kidney fibrosis and nephrosclerosis, and a vascular condition, such as restenosis.

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