

GAMMA-DIKETONES AS *WNT*/BETA -CATENIN SIGNALING PATHWAY ACTIVATORS

ABSTRACT

The present disclosure provides γ -diketones or analogs thereof, that activate Wnt/ β -catenin signaling and thus treat or prevent diseases related to signal transduction, such as osteoporosis and osteoarthropathy; osteogenesis imperfecta, bone defects, bone fractures, periodontal disease, otosclerosis, wound healing, craniofacial defects, oncolytic bone disease, traumatic brain injuries or spine injuries, brain atrophy/neurological disorders related to the differentiation and development of the central nervous system, including Parkinson's disease, strokes, ischemic cerebral disease, epilepsy, Alzheimer's disease, depression, bipolar disorder, schizophrenia; otic disorders like cochlear hair cell loss; eye diseases such as age related macular degeneration, diabetic macular edema or retinitis pigmentosa and diseases related to differentiation and growth of stem cell, such as hair loss, hematopoiesis related diseases and tissue regeneration related diseases.

[No suitable figure]