WAY-262611 is supplied as a crystalline solid. A stock solution may be made by dissolving the WAY-262611 in the solvent of choice. WAY-262611 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of WAY-262611 in ethanol is approximately 50 mg/ml and approximately 30 mg/ml in DMSO and DMF.

WAY-262611 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, WAY-262611 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. WAY-262611 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

**Description**

Wnt signaling proteins are small secreted proteins that are active in embryonic development, tissue homeostasis, and tumorigenesis.1-3 Dickkopf-1 (Dkk1) antagonizes Wnt signaling and has important roles in bone formation, cancer, and Alzheimer’s disease.4 WAY-262611 is an inhibitor of Dkk1 that activates the Wnt signaling pathway, stimulating β-catenin/TCF-dependent transcription with an EC₅₀ value of 0.63 µM.5 It has good pharmacokinetic properties and increases trabecular bone formation in ovariectomized rats following oral administration.5 WAY-262611 has been used to elucidate the role of Dkk1 in modulating Wnt signaling, particularly in the context of arthritis.6,7

**References**