Odanacatib (MK 0822)  
Kinase Inhibitor

**Kinase Inhibitor Name:** Odanacatib (MK 0822)  
**Catalog Number:** E1KS1115  
**Quantity:** 5mg

1. **PHYSICAL AND CHEMICAL PROPERTIES**

   - **M.W.**: 525.56
   - **Formula**: \( \text{C}_{25}\text{H}_{27}\text{F}_{4}\text{N}_{3}\text{O}_{3}\text{S} \)
   - **Solubility**: DMSO \( \geq 105\text{mg/mL} \)  
     Water <1mg/mL  
     Ethanol \( \geq 3\text{mg/mL} \)
   - **Purity**: \( >99\% \)
   - **Storage**: at \(-20^\circ\text{C}\) 2 years
   - **CAS No.**: 603139-19-1

2. **Biological Activity**

   Odanacatib (mk0822) is an inhibitor of cathepsin K with potential anti-osteoporotic activity. Odanacatib selectively binds to and inhibits the activity of cathepsin K (IC50=0.2nM), which may result in a reduction in bone resorption, improvement of bone mineral density, and a reversal in osteoporotic changes. Odanacatib is currently in clinical development for the treatment of postmenopausal osteoporosis. [1]

3. **References:**


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The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.

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**For Research Use Only**