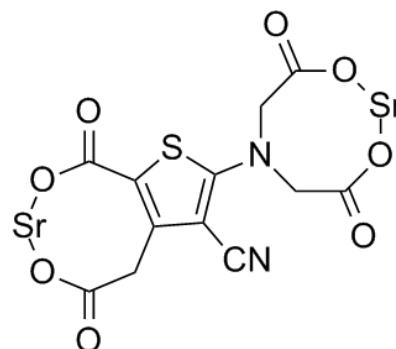


**Product Name** : Strontium ranelate  
**Cat. No.** : PC-45220  
**CAS No.** : 135459-87-9  
**Molecular Formula** : C<sub>12</sub>H<sub>6</sub>N<sub>2</sub>O<sub>8</sub>SSr<sub>2</sub>  
**Molecular Weight** : 513.4896  
**Target** : Calcium-sensing Receptor (CaSR)  
**Solubility** : DMSO: < 1 mg/mL



### Biological Activity

A strontium(II) salt of ranelic acid that stimulates CaSR and leads to the differentiation of pre-osteoblast to osteoblast, increases the bone formation; also stimulates osteoblasts to secrete osteoprotegerin in inhibiting osteoclasts formed from pre-osteoclasts in relation to the RANKL system; a medication for osteoporosis treatment.

Osteoporosis  
Approved

### References

Hamdy NA. Rheumatology (Oxford). 2009 Oct;48 Suppl 4:iv9-13.

Chu JG, et al. BMC Musculoskelet Disord. 2017 Feb 10;18(1):78.

Tsai TT, et al. PLoS One. 2017 Jan 4;12(1):e0167296.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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