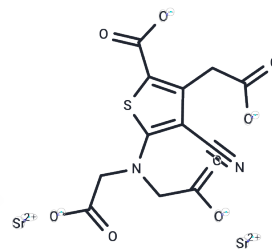


## Strontium ranelate

## Chemical Properties

CAS No. :	135459-87-9
Formula:	C <sub>12</sub> H <sub>6</sub> N <sub>2</sub> O <sub>8</sub> S·2Sr
Molecular Weight:	513.49
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Strontium ranelate (S12911), a strontium (II) salt of the ranelic acid, is a medication for osteoporosis. Studies indicate it can also slow the course of osteoarthritis of the knee. The drug is unusual in that it both increases deposition of new bone by osteoblasts and reduces the resorption of bone by osteoclasts. It is therefore promoted as a "dual action bone agent" (DABA) indicated for use in the treatment of severe osteoporosis.
Targets(IC50)	Calcium Channel,CaSR

## Solubility Information

Solubility	DMSO: 10.53 mg/mL (20.51 mM),when pH is adjusted to 3 with HCL. 0.1 M HCL: 19.8 mg/mL (38.56 mM),Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9475 mL	9.7373 mL	19.4746 mL
5 mM	0.3895 mL	1.9475 mL	3.8949 mL
10 mM	0.1947 mL	0.9737 mL	1.9475 mL
50 mM	0.0389 mL	0.1947 mL	0.3895 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kirschneck C, et al. Eur J Pharmacol. 2014 Dec 5;744:67-75.

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