

MURR[®]

Research Grade

¹⁵³Sm1513 Research Park Drive
Columbia, MO 65211Information: www.murr.missouri.eduOrdering: <https://murrorders.missouri.edu>

Main Phone: (573)882-4211

Customer Service: (573)884-3183

samarium chloride**Information**

Half life:	1.9 days
Availability:	Made to Order
Production Day:	Monday-Friday
Order Deadline:	At least 2 weeks prior to shipment
Shipments:	As Requested
Storage:	Room Temperature
Packaging:	2 or 5 mL v-bottom vial or 1.5 mL screw-cap tube or holister stier vial
Dispensing parameters:	Min: 20 µL

Typical Specifications

Compound:	Sm-153 in 0.1 N HCL or 0.05 M HCl
Specific Activity:	variable
Activity Concentration:	per customer request
Radionuclidic purity:	98%
Radiochemical purity:	99% as samarium chloride
pH:	n/a

**Please Note: This radiochemical is not intended for human use in its delivered form.
Verification of suitability for use in humans is the sole responsibility of the purchaser.**

Sm-153 Decay Table		Half-life: 1.928 days								
Days	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	1.0000	0.9647	0.9306	0.8978	0.8661	0.8355	0.8060	0.7775	0.7501	0.7236
1	0.6734	0.6496	0.6266	0.6045	0.5832	0.5626	0.5427	0.5235	0.5051	0.4872
2	0.4700	0.4534	0.4374	0.4220	0.4071	0.3927	0.3788	0.3654	0.3525	0.3401
3	0.3281	0.3165	0.3053	0.2945	0.2841	0.2741	0.2644	0.2551	0.2461	0.2374
4	0.2290	0.2209	0.2131	0.2056	0.1983	0.1913	0.1846	0.1781	0.1718	0.1657
5	0.1598	0.1542	0.1488	0.1435	0.1384	0.1335	0.1288	0.1243	0.1199	0.1157
6	0.1116	0.1076	0.1038	0.1002	0.0966	0.0932	0.0899	0.0868	0.0837	0.0807
7	0.0779	0.0751	0.0725	0.0699	0.0674	0.0651	0.0628	0.0606	0.0584	0.0564
8	0.0544	0.0524	0.0506	0.0488	0.0471	0.0454	0.0438	0.0423	0.0408	0.0393
9	0.0379	0.0366	0.0353	0.0341	0.0329	0.0317	0.0306	0.0295	0.0285	0.0275
10	0.0265	0.0256	0.0246	0.0238	0.0229	0.0221	0.0213	0.0206	0.0199	0.0192

M U R e s e a r c h R e a c t o r C e n t e r

June 2011