

# Samarium-153 Product Information

## Specifications

<b>Radioisotope</b>	<b>Sm-153</b>
<b>Half-Life/Daughter</b>	46.284 hours to europium-153
<b>Decay</b>	<a href="#">Decay Radiation Information (NNDC)</a>
<b>Chemical Form</b>	Nitrate or chloride solid
<b>Available Specific Activity</b>	≤8.6 Ci/mg, varies by lot
<b>Radionuclidic Purity</b>	>99%
<b>Production Route</b>	Neutron capture on samarium enriched in samarium-152
<b>Processing</b>	Dissolve in HNO <sub>3</sub> or HCl solution, gamma analysis, evaporate prior to shipping
<b>Primary Container</b>	Glass screw cap bottle in nonreturnable container
<b>Availability</b>	Special order
<b>Unit of Sale</b>	Millicuries