

# SrI<sub>2</sub>(Eu)

Excellent light output &  
Excellent energy resolution  
Scintillator

SrI<sub>2</sub>(Eu)

## Product Information

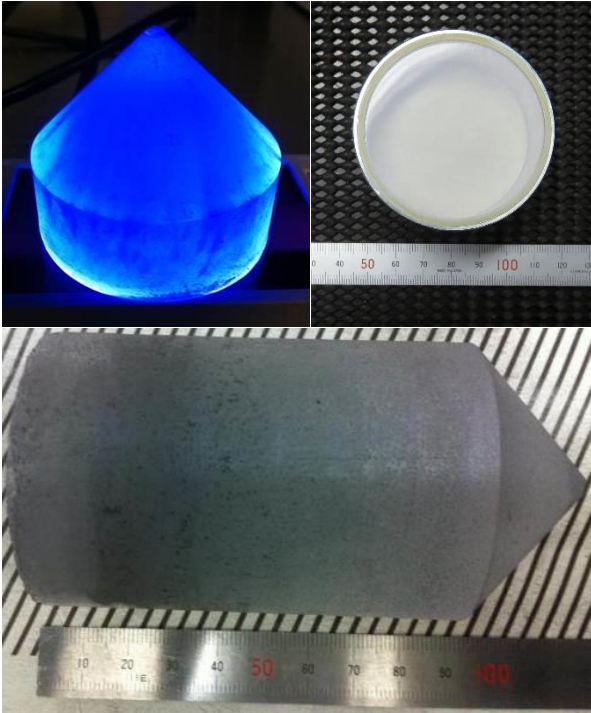


Fig.1: Photograph of SrI<sub>2</sub>(Eu) scintillator.\*<sup>1</sup>

\*<sup>1</sup>Yoshikawa et al., J. Cryst. Growth, 452 (2016) 73-80.

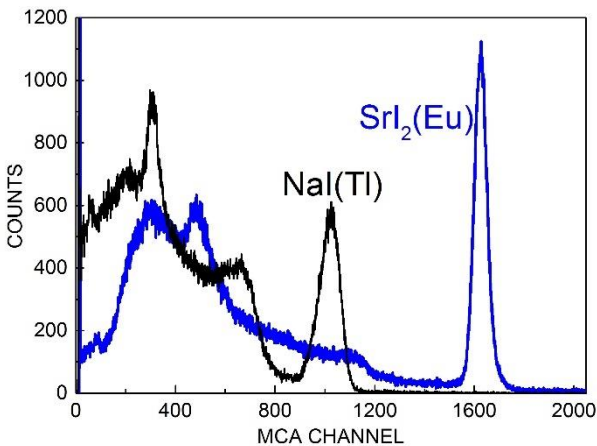


Fig.2: Pulse height spectra of NaI(Tl) and SrI<sub>2</sub>(Eu) irradiated with gamma rays from a <sup>137</sup>Cs source.

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## Outline

SrI<sub>2</sub>(Eu) scintillator has excellent light output and energy resolution among all scintillators. Compared with NaI(Tl), SrI<sub>2</sub>(Eu) has higher gamma-ray stopping power by approximately two times. Moreover, SrI<sub>2</sub>(Eu) has quite-small intrinsic gamma-ray background.

SrI<sub>2</sub>(Eu) bulk single crystal with 2-inch-diameter is available now.

## Scintillation Properties\*<sup>2</sup>

Light output [photons/MeV]	70,000 – 80,000
Energy resolution (662 keV, FWHM) [%]	3~4
Decay time [ns] * <sup>3</sup>	300 – 1,500
Emission wavelength [nm]	420
Density [g/cm <sup>3</sup> ]	4.6

\*<sup>2</sup> All scintillation properties were measured using φ2 inch x 2 inch L sample coupled with R7600U-200 PMT.

\*<sup>3</sup> It depends on Eu concentration.

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