Supporting Information

Rare earth indates (RE: La-Yb): Influence of synthesis route and heat treatment on crystal structure

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Figure S1: DR-UV plot for (a) hexagonal SmInO$_3$ and (b) orthorhombic SmInO$_3$. 

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Figure S2: Spin polarised total and projected density of states (DOS) of (a) Hexagonal and (b) orthorhombic SmInO$_3$ calculated using HSE06 method.

Figure S3. Variation of energy with volume fitted to Birh-Murnaghan equation of state for (a) Orthorhombic and (b) Hexagonal SmInO$_3$. 
Figure S4. Variation of free energy with respect to volume at different temperatures from 0 K to 2000 K for (a) Orthorhombic and (b) Hexagonal SmInO$_3$. 