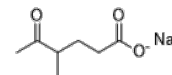


**Product Name** : ERG240  
**Cat. No.** : PC-26613  
**CAS No.** : 1415683-79-2  
**Molecular Formula** : C<sub>7</sub>H<sub>11</sub>NaO<sub>3</sub>  
**Molecular Weight** : 166.15  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

ERG240 (ERG-240) is a potent, selective, orally active branched-chain amino acid aminotransferase 1 (BCAT1) inhibitor, inhibits recombinant BCAT1 with an IC<sub>50</sub> of 0.1-1 nM, with no inhibition on BCAT2.

ERG240 (3 h, 20 mM) treatment induced reduction in IRG1 mRNA levels but not HIF1A and IL1B in LPS-stimulated cells, resulted in decreased itaconate levels.

ERG240 showed comparable inhibitory effect on IRG1 expression in TNF-stimulated human macrophages and long-term exposure (24 h) to LPS and ERG240 resulted in reduced IL-1β levels. ERG240 significantly reduced TNF and NOS2 but not IL6 and PTGS2 expression levels in human macrophages.

ERG240 blocked itaconate production in vivo and polarizes peritoneal macrophages.

ERG240 reduced the severity of crescentic glomerulonephritis in rats and CIA in mice.

## References

Papathanassiou AE, et al. Nat Commun. 2017 Jul 12;8:16040.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com