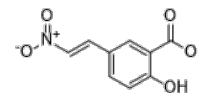


Product Name : SANA
Cat. No. : PC-24788
CAS No. : 42571-07-3
Molecular Formula : C₉H₇NO₅
Molecular Weight : 209.16
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 42571-07-3

Biological Activity

SANA is a nitroalkene derivative of salicylate, and a first-in-class activator of creatine-dependent energy expenditure and **thermogenesis**, induces creatine-dependent thermogenesis and promotes weight loss.

SANA stimulates mitochondrial respiration, a gene expression signature of creatine-dependent thermogenesis and a UCP1-independent loss of weight.

SANA stimulates energy expenditure and protects against obesity under thermoneutral conditions.

SANA stimulates thermogenesis independently of UCP1 expression or activation and does not directly uncouple mitochondria.

SANA is effective for weight loss and weight gain prevention during DIO, but not under normal diet.

References

Cal K, et al. *Nat Metab.* 2025 Jun 17. doi: 10.1038/s42255-025-01311-z.

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

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