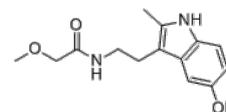


Product Name : SPRI3
Cat. No. : PC-61241
CAS No. : 1292285-54-1
Molecular Formula : C₁₄H₁₈N₂O₃
Molecular Weight : 262.309
Target : Other Targets
Solubility : 10 mM in DMSO



2. Cronin SJF, et al. *Nature*. 2018
Nov;563(7732):564-568.

Biological Activity

SPRI3 (SPR inhibitor 3) is a small molecule inhibitor of sepiapterin reductase (**SPR**) with IC₅₀ of 74 nM in cell-free assays, efficiently reduces biopterin levels with IC₅₀ of 5.2 μM.

SPRI3 also significantly reduces SPR activity in mouse primary cultures of sensory neurons (IC₅₀=0.45 μM) without affecting the activity of GCH1.

SPRI3 reduces pain hypersensitivity effectively with a concomitant decrease in BH4 levels in target tissues, acting both on sensory neurons and macrophages, with no development of tolerance or adverse effects.

References

Latremoliere A, et al. *Neuron*. 2015 Jun 17;86(6):1393-406.

