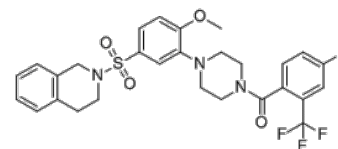# Data Sheet

Product Name : RET agonist BT44
Cat. No. : PC-72010
CAS No. : 924759-42-2
Molecular Formula : $C_{28}H_{27}F_4N_3O_4S$
Molecular Weight : 577.595
Target : RET Tyrosine Kinase (c-RET)
Solubility : 10 mM in DMSO

Biological Activity

RET agonist BT44 is a novel, specific **RET agonist**, promotes RET phosphorylation and selectively activates downstream cascades in the cells expressing GFL receptors.

BT44 has no effect on TrkA and TrkB receptors; In GFRα1/RET expressing cells, 10–50 µM of BT44 increased the activity of luciferase reporter by approximately two fold (P<0.0001).

BT44 dose-dependently stimulated neurite outgrowth from DRG sensory neurons and its efficacy was comparable to that of ARTN.

BT44 alleviated mechanical hypersensitivity in surgery- and diabetes-induced rat models of neuropathic pain.

References

Viisanen H, et al. *Mol Pain.* 2020 Jan-Dec;16:1744806920950866.

Renko JM, et al. *J Parkinsons Dis.* 2021;11(3):1023-1046.

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