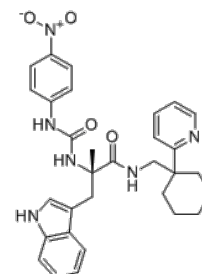


Product Name : PD168368
Cat. No. : PC-21220
CAS No. : 204066-82-0
Molecular Formula : C₃₁H₃₄N₆O₄
Molecular Weight : 554.65
Target : Bombesin Receptor
Solubility : 10 mM in DMSO



CAS: 204066-82-0

Biological Activity

PD168368 is a potent, competitive, and selective **neuromedin B receptor (NMB-R)** antagonist with K_i of 15 nM, IC₅₀ of 96 nM.

PD 168368 also is a mixed FPR1/FPR2/FPR3 agonist with EC₅₀ of 0.57, 0.24, and 2.7 nM, respectively.

PD168368 is highly active and stimulated [Ca²⁺]_i release in human neutrophils with EC₅₀ values in the nanomolar range.

PD168368 suppresses migration and invasion of the human breast cancer cell line MDA-MB-231.

PD168368 reduces epithelial-mesenchymal transition (EMT) of breast cancer cells by E-cadherin upregulation and vimentin downregulation.

PD168368 suppresses the activation of mTOR/p70S6K/4EBP1 and AKT/GSK-3β pathways in breast cancer cells.

PD168368 potentially inhibits in vivo metastasis of breast cancer.

References

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K Tokita, et al. *J Biol Chem*. 2001 Jan 5;276(1):495-504.

Igor A Schepetkin, et al. *Mol Pharmacol*. 2011 Jan;79(1):77-90.

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

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