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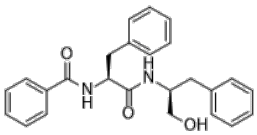
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Aurantiamide
Cat. No.	:	PC-24417
CAS No.	:	58115-31-4
Molecular Formula	:	$C_{25}H_{26}N_2O_3$
Molecular Weight	:	402.49
Target	:	Bombesin Receptor
Solubility	:	10 mM in DMSO



Biological Activity

Aurantiamide is a potent, non-covalent, orally active, BBB-permeable antagonist of gastrin-releasing peptide receptor (GRPR), shows anti-inflammatory and neuroprotective effects.
Aurantiamide reduces inflammation and oxidative stress in renal tissue by inhibiting GRPR-mediated renal necrosis pathways (such as RIPK3/MLKL signaling) and NF-κB inflammatory pathways.
Aurantiamide also inhibits the M1 polarization of microglia and inhibits NLRP3 activation, thereby improving AD mouse models.

References

He RB, et al. Int Immunopharmacol. 2024 Sep 30;139:112745.

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