

Product Name	: AOB2796
Synonyms	: AC-55541; AC 55541; AC55541
Cat No.	: M17660
CAS Number	: 916170-19-9
Molecular Formula	: C ₂₅ H ₂₀ BrN ₅ O ₃
Formula Weight	: 518.36
Chemical Name	: (E)-N-(2-(2-(1-(3-bromophenyl)ethylidene)hydrazinyl)-2-oxo-1-(4-oxo-3,4-dihydrophthalazin-1-yl)ethyl)benzamide
Description	AC-55541 is a protease-activated receptor (PAR) 2 agonist. AC-55541 activated PAR2 signaling in cellular proliferation assays, phosphatidylinositol hydrolysis assays, and Ca(2+) mobilization assays, with potencies ranging from 200 to 1000 nM. AC-55541 was well absorbed when administered intraperitoneally to rats, each reaching micromolar peak plasma concentrations. AC-55541 was stable to metabolism by liver microsomes and maintained sustained exposure in rats, with elimination half-lives of 6.1. Systemic administration of either AC-55541 or AC-264613 produced a similar degree of hyperalgesia as was observed when the compounds were administered locally. AC-55541 may be useful in probing the physiological functions of PAR2 receptors.
Pathway	: Others
Target	: Other Targets
Receptor	: Protease-Activated Receptor 2
Solubility	: DMSO : ≥ 51 mg/mL;; 98.39 mM
SMILES	: <chem>C/C(=MNC(=O)C(c1n[nH]c(=O)c2cccc12)NC(=O)c1cccc1)/c1cc(ccc1)Br</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Gardell LR, et al. J Pharmacol Exp Ther. 2008 Dec;327(3):799-808.