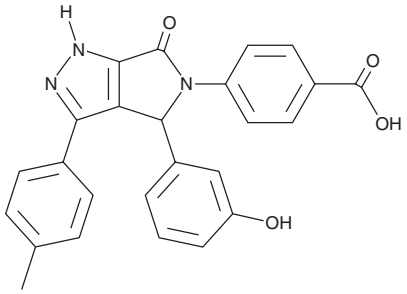
PRODUCT INFORMATION

CID-16020046

Item No. 15247

CAS Registry No.:	834903-43-4
Formal Name:	4-[4,6-dihydro-4-(3-hydroxyphenyl)-3-(4-methylphenyl)-6-oxopyrrolo[3,4-c]pyrazol-5(1H)-yl]-benzoic acid
MF:	$C_{25}H_{19}N_3O_4$
FW:	425.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 280 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CID-16020046 is supplied as a crystalline solid. A stock solution may be made by dissolving the CID-16020046 in the solvent of choice, which should be purged with an inert gas. CID-16020046 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CID-16020046 in these solvents is approximately 25 mg/ml.

Description

CID-16020046 is a GPR55 inverse agonist that antagonizes GPR55 constitutive activity with an IC_{50} value of 15 µM.[1] It inhibits GPR55-mediated ERK1/2 phosphorylation, LPI-induced Ca^{2+} signaling (IC_{50} = 0.21 µM in HEK-GPR55 cells), and GPR55-mediated transcription factor activation.[1] It does not affect ERK1/2 phosphorylation or transcription factor activation in CB receptor expressing cells and demonstrates weak activity against a broad spectrum of other GPCRs, ion channels, kinases, and nuclear receptors.[1] This compound has been shown to block GPR55-mediated endothelial wound healing and reverse LPI-inhibited platelet aggregation.[1]

Reference

1. Kargl, J., Brown, A.J., Andersen, L., *et al.* A selective antagonist reveals a potential role of G protein-coupled receptor 55 in platelet and endothelial cell function. *J. Pharmacol. Exp. Ther.* **346(1)**, 54-66 (2013).

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