

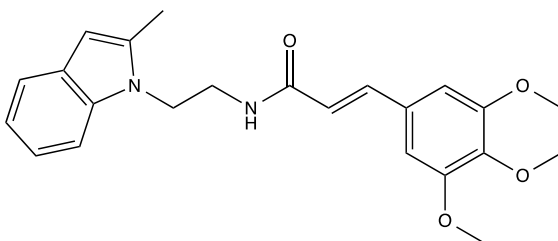
Catalog # 10-1574

TG4-155

CAS# 1164462-05-8

(2E)-N-[2-(2-Methyl-1H-indol-1-yl)ethyl]-3-(3,4,5-trimethoxyphenyl)-2-propenamide

Lot # S102167



Potent and selective prostaglandin EP₂ receptor antagonist, K_B = 2.4 and 34.5 nM for EP₂ and DP₁ receptors respectively. Displays >500-fold selectivity for EP₂ over other prostanoid receptors.¹ Inhibits butaprost-induced proinflammatory cytokine production, cell proliferation and invasion of PC-3 cells *in vitro*.² Inhibits PGE₂-induced inflammatory response and may represent a novel pharmacologic intervention for tumorigenesis resulting from inflammation.¹

- 1) Jiang and Dingledine (2013), *Role of prostaglandin receptor EP2 in the regulations of cancer cell proliferation, invasion, and inflammation*; J. Pharmacol. Exp. Ther. **344** 360
- 2) Quan *et al.* (2013), *EP2 Receptor Signaling Pathways Regulate Classical Activation of Microglia*; J. Biol. Chem. **288** 9293

PHYSICAL DATA

Molecular Weight:	394.47
Molecular Formula:	C ₂₃ H ₂₆ N ₂ O ₄
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml) and Ethanol (10 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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