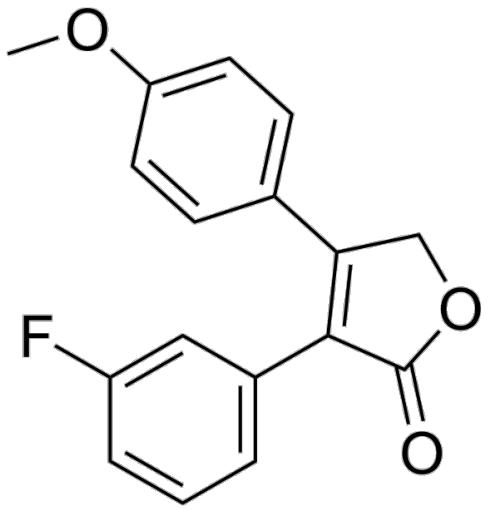
Product Data Sheet

Product Name: VU0487836
Cat. No.: GC79363

Chemical Properties

Cas. No.	1632301-78-0		
Formula	$C_{17}H_{13}FO_3$	M.Wt	284.29
Solubility	DMSO: 50 mg/mL (175.88 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

VU0487836 is a selective cyclooxygenase-1 (COX-1) inhibitor with an IC_{50} of 0.36 μM against ovine-derived COX-1. VU0487836 serves as a prototype for the development of radiological imaging agents targeting COX-1 for ovarian cancer. VU0487836 is applicable to relevant research on ovarian cancer [1].

In Vitro, VU0487836 (compound 27) potently and selectively inhibits purified ovine COX-1 with an

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IC_{50} of 0.36 μM, while it shows no inhibitory activity against purified murine COX-2 (IC_{50} >25 μM)[1]. VU0487836 potently and selectively inhibits COX-1 in human ovarian cancer cell line OVCAR3 with an IC_{50} of 0.18 μM, while it shows no inhibitory activity against COX-2 in human 1483 head and neck squamous cell carcinoma cells (IC_{50} >5 μM)[1].

References:

[1]. Uddin MJ, et al. Design of Fluorine-Containing 3,4-Diarylfuran-2(5H)-ones as Selective COX-1 Inhibitors. ACS Med Chem Lett. 2014 Oct 12;5(11):1254-8.

Caution: Product has not been fully validated for medical applications. For research use only.
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