

## Product Data Sheet

Product Name: VU0487836

Cat. No.: GC79363

### Chemical Properties

Cas. No. 1632301-78-0

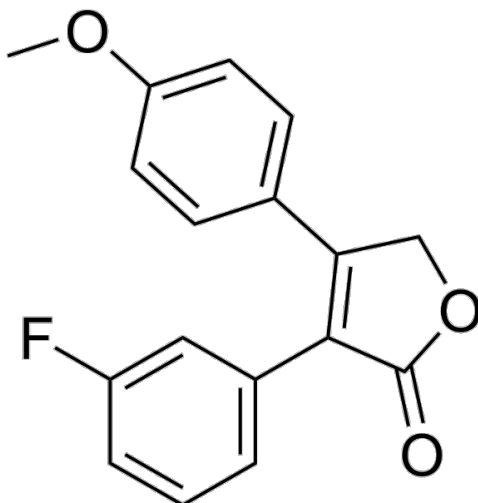
Formula  $C_{17}H_{13}FO_3$  M.Wt 284.29

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  $\mu$ M 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

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

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IC<sub>50</sub> of 0.36  $\mu$ M, while it shows no inhibitory activity against purified murine COX-2 (IC<sub>50</sub> >25  $\mu$ M)<sup>[1]</sup>. VU0487836 potently and selectively inhibits COX-1 in human ovarian cancer cell line OVCAR3 with an IC<sub>50</sub> of 0.18  $\mu$ M, while it shows no inhibitory activity against COX-2 in human 1483 head and neck squamous cell carcinoma cells (IC<sub>50</sub> >5  $\mu$ M)<sup>[1]</sup>.

### 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.

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