

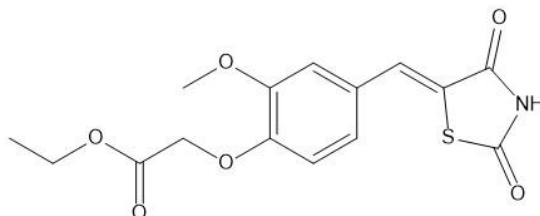
**Catalog # 10-3601**

**IMR-1**

CAS# 310456-65-6

2-[2-Methoxy-4-[(4-oxo-2-thioxo-5-thiazolidinylidene)methyl]phenoxy]-acetic acid ethyl ester

Lot # S105043



Inhibitor of Mastermind Recruitment-1 (IMR-1) disrupts the recruitment of Mastermind-like 1 to the Notch transcriptional activation complex (NTC) on chromatin, which attenuates Notch target gene transcription<sup>1</sup>. IC<sub>50</sub>=26  $\mu$ M (*in vitro* assay). IMR-1 inhibits the growth of Notch-dependent cell lines and attenuates the growth of patient-derived tumor xenografts. The ethylester is hydrolyzed by intracellular esterases which produces the free acid compound (IMR-1A), IC<sub>50</sub>=0.5  $\mu$ M (*in vitro* assay). Binding of IMR-1 to NTC is non-covalent and reversible.<sup>1</sup>

- 1) Austudilo *et al.* (2016), *The Small Molecule IMR-1 Inhibits the Notch Transcriptional Activation Complex to Suppress Tumorigenesis*; *Cancer Res.*, **76** 3593

**PHYSICAL DATA**

Molecular Weight:	353.41
Molecular Formula:	C <sub>15</sub> H <sub>15</sub> NO <sub>5</sub> S <sub>2</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml) or Ethanol (up to 9 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**