

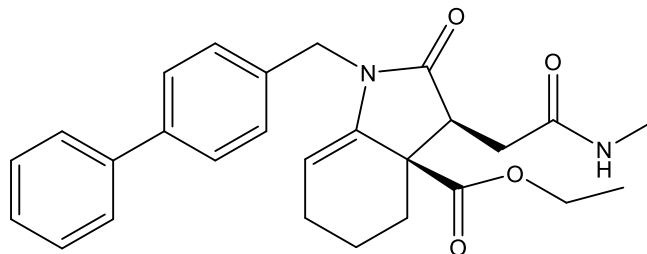
Catalog # 10-4578

Fumarate hydratase-IN-1

CAS# 1644060-37-6

Ethyl *rel*-(3*S*,3*aR*)-3-[2-(Methylamino)-2-oxoethyl]-2-oxo-1-[(4-phenylphenyl)methyl]-3,4,5,6-tetrahydroindole-3*a*-carboxylate

Lot # JKM1126



Fumarate hydratase-IN-1 is a pro-drug inhibitor of fumarate hydratase, an important enzyme in the tricarboxylic acid (TCA) cycle. This cell permeable compound is converted to the active carboxylic acid by intracellular esterases ($K_i = 4.5 \mu\text{M}$ for free acid). The ethyl ester displayed cell-growth inhibitory activity against several cancer lines under nutrient (glucose) deprived conditions with an average $\text{IC}_{50} = 2.2 \mu\text{M}$.

- 1) Takeuchi *et al.* (2015), *Identification of Fumarate Hydratase Inhibitors with Nutrient-Dependent Cytotoxicity*; J. Am. Soc. Chem. **137** 564

PHYSICAL DATA

Molecular Weight:	446.55
Molecular Formula:	$\text{C}_{27}\text{H}_{30}\text{N}_2\text{O}_4$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com