

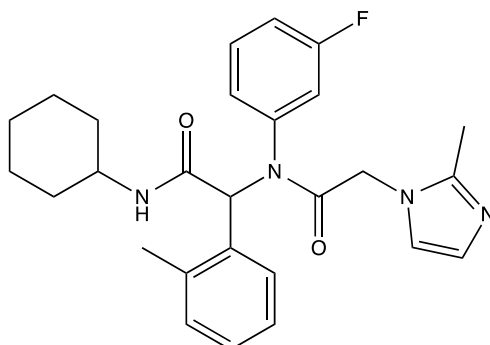
**Catalog #10-4599**

**AGI-5198**

CAS# 1355326-35-0

N-[2-(Cyclohexylamino)-1-(2-methylphenyl)-2-oxoethyl]-N-(3-fluorophenyl)-2-methyl-1H-imidazole-1-acetamide

Lot # FBA3110



AGI-5198 is a potent ( $IC_{50} = 70$  nM) inhibitor of mutant isocitrate dehydrogenase 1 (IDH1).<sup>1</sup> It is selective for the R132H-IDH1 mutant and does not affect wild type cells.<sup>2</sup> This mutation results in loss-of-function for oxidative decarboxylation of isocitrate and gain-of-function for production of the oncometabolite R-2-hydroxyglutarate (R-2HG) from alpha-ketoglutarate (2-OG).

- 1) Popovici-Muller *et al.* (2012), *Discovery of the First Potent Inhibitors of Mutant IDH1 That Lower Tumor 2-HG In Vivo*; ACS Med.Chem.Lett. **3** 850
- 2) Rohle *et al.* (2013), *An inhibitor of mutant IDH1 delays growth and promotes differentiation of glioma cells*; Science **340** 626

**PHYSICAL DATA**

Molecular Weight:	462.56
Molecular Formula:	C <sub>27</sub> H <sub>31</sub> FN <sub>4</sub> O <sub>2</sub>
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (10 mg/mL) and ethanol (5 mg/mL)
Physical Description:	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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