



Product Information

Isocitrate dehydrogenase (IDH) inhibitor, AGI-5198, Purity $\geq 98\%$

Cat. No.: X24-09-YM318

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD24848688

CAS Number: 1355326-35-0

Compound CID: 56645356

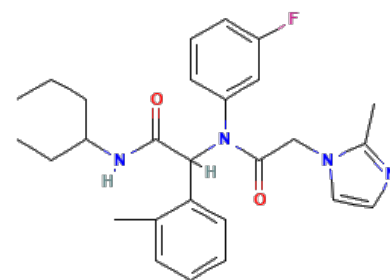
Synonym: 1355326-35-0; AGI5198; AGI 5198; IDHC35; *N*

-Cyclohexyl-2-(3-fluoro-*N*

-[2-(2-methylimidazol-1-yl)acetyl]anilino)-2-(2-methylphenyl)acetamide; Isocitrate

dehydrogenase (IDH) inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	AGI-5198, soluble in DMSO and ethanol and insoluble in water, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting isocitrate dehydrogenase (IDH). The molecular weight of the compound is 462.56, and its molecular formula is C ₂₇ H ₃₁ FN ₄ O ₂ . It targets the R132C-IDH1 and R132H-IDH1.
Molecular Weight	462.56
Molecular Formula	C ₂₇ H ₃₁ FN ₄ O ₂
Targets	R132C-IDH1
IUPAC Name	<i>N</i> -Cyclohexyl-2-(3-fluoro- <i>N</i> -[2-(2-methylimidazol-1-yl)acetyl]anilino)-2-(2-methylphenyl)acetamide
InChI	InChI=1S/C27H31FN4O2/c1-19-9-6-7-14-24(19)26(27(34)30-22-11-4-3-5-12-22)32(23-13-8-10-21(28)17-23)25(33)18-31-16-15-29-20(31)2/h6-10,13-17,22,26H,3-5,11-12,18H2,1-2H3,(H,30,34)
InChI Key	FNYGWXSATBUBER-UHFFFAOYSA-N
Canonical SMILES	CC1=CC=CC=C1C(C(=O)NC2CCCCC2)N(C3=CC(=CC=C3)F)C(=O)CN4C=CN=C4C
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 22 mg/mL (47.56 mM); Water: insoluble; Ethanol: 13 mg/mL (28.1 mM); <i>In vivo</i> : 0.5% methylcellulose + 0.2% Tween 80, 28 mg/mL
Identity	Confirmed by NMR/HPLC/MS.



Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	AGI-5198 can be studied extensively for its potential therapeutic applications in the treatment of certain types of brain tumors and acute myeloid leukemia (AML).
Storage	Store at -20°C, and keep desiccated.
