

## Product Information

### Azaguanine-8, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM1414

**Size:** 50 mg; 100 mg; 200 mg; 500 mg

**MDL:** MFCD00056937

**CAS Number:** 134-58-7

**Compound CID:** 135403646

**Synonym:** 134-58-7; NSC-749; SF-337; SK 1150;

5-Amino-2,6-dihydrotriazolo[4,5-d]pyrimidin-7-one



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

#### Product Information

<b>Description</b>	Azaguanine-8, soluble in DMSO and insoluble in water and ethanol, is a purine analog showing antineoplastic activity by competing with guanine in the metabolism. The molecular weight of the compound is 152.11, and its molecular formula is C <sub>4</sub> H <sub>4</sub> N <sub>6</sub> O.
<b>Molecular Weight</b>	152.11
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>4</sub> N <sub>6</sub> O
<b>IUPAC Name</b>	5-Amino-2,6-dihydrotriazolo[4,5-d]pyrimidin-7-one
<b>InChI</b>	InChI=1S/C4H4N6O/c5-4-6-2-1(3(11)7-4)8-10-9-2/h(H4,5,6,7,8,9,10,11)
<b>InChI Key</b>	LPXQRXLUHJKZIE-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C12=NNN=C1N=C(NC2=O)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: 6 mg/mL (39.44 mM); Water: insoluble; Ethanol: insoluble; <i>In vivo</i> : 5% DMSO + 45% PEG 300 + ddH <sub>2</sub> O, 1 mg/mL
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Azaguanine-8 plays a key role in targeting tumors that are sensitive to such metabolic disruptions.
<b>Storage</b>	Store at -20°C, and keep desiccated.



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