

## Product Information

### Antifection inhibitor Closantel, Purity ≥98%

**Cat. No.:** X24-07-ZQ066

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

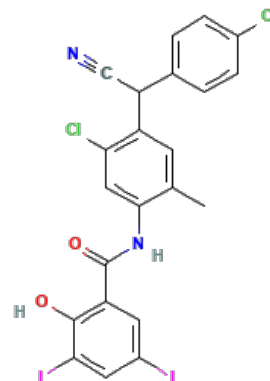
**MDL:** MFCD00661151

**CAS Number:** 57808-65-8

**Compound CID:** 42574

**Synonym:** 57808-65-8; Antifection inhibitor; R-31520

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



#### Product Information

<b>Description</b>	Closantel, soluble in DMSO and insoluble in ethanol and water, has strong immunosuppressant properties.
<b>Molecular Weight</b>	663.07
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>14</sub> Cl <sub>2</sub> I <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
<b>IUPAC Name</b>	<i>N</i> -[5-chloro-4-[(4-chlorophenyl)-cyanomethyl]-2-methylphenyl]-2-hydroxy-3,5-diiodobenzamide
<b>InChI</b>	InChI=1S/C22H14Cl2I2N2O2/c1-11-6-15(17(10-27)12-2-4-13(23)5-3-12)18(24)9-20(11)28-22(30)16-7-14(25)8-19(26)21(16)29/h2-9,17,29H,1H3,(H,28,30)
<b>InChI Key</b>	JMPFSEBWVLAJKM-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC1=CC(=C(C=C1NC(=O)C2=C(C(=CC(=C2)I)I)O)Cl)C(C#N)C3=CC=C(C=C3)Cl
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Solubility</b>	DMSO: 92 mg/mL (138.75 mM); Water: Insoluble; Ethanol: Insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Closantel is examined for its antiparasitic activity, particularly against liver fluke in livestock, and its role in controlling parasitic diseases.
<b>Storage</b>	Store at -20°C, and keep desiccated.