

## Product Information

### CDK inhibitor PD 0332991 isethionate, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ758

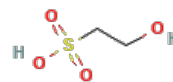
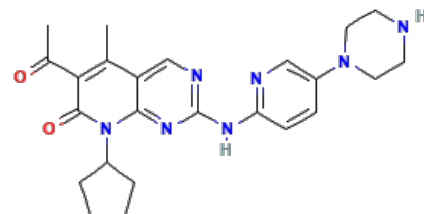
**Size:** 10 mg; 25 mg; 50 mg

**CAS Number:** 827022-33-3

**Compound CID:** 11478676

**Synonym:** 827022-33-3; PD0332991; PD-0332991; CDK inhibitor

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



#### Product Information

<b>Description</b>	PD 0332991 isethionate, soluble in DMSO and warmed water and insoluble in ethanol, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK4/CyclinD1, CDK6/CyclinD2, AMPK, and c-Src.
<b>Molecular Weight</b>	573.7
<b>Molecular Formula</b>	C <sub>26</sub> H <sub>35</sub> N <sub>7</sub> O <sub>6</sub> S
<b>Targets</b>	CDK4/CyclinD1: 11 nM; CDK6/CyclinD2: 15 nM; AMPK: >10 $\mu$ M; c-Src: >10 $\mu$ M
<b>IUPAC Name</b>	6-Acetyl-8-cyclopentyl-5-methyl-2-[(5-piperazin-1-yl)pyridin-2-yl]amino]pyrido[2,3-d]pyrimidin-7-one;2-hydroxyethanesulfonic acid
<b>InChI</b>	InChI=1S/C24H29N7O2.C2H6O4S/c1-15-19-14-27-24(28-20-8-7-18(13-26-20)30-11-9-25-10-12-30)29-22(19)31(17-5-3-4-6-17)23(33)21(15)16(2)32;3-1-2-7(4,5)6/h7-8,13-14,17,25H,3-6,9-12H2,1-2H3,(H,26,27,28,29);3H,1-2H2,(H,4,5,6)
<b>InChI Key</b>	LYYVFHRFIJKPOV-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC1=C(C(=O)N(C2=NC(=NC=C12)NC3=NC=C(C=C3)N4CCNCC4)C5CCCC5)C(=O)C.C(CS(=O)(=O)O)O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: Insoluble; Warmed water: 9 mg/mL (15.69 mM); 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>Applications</b>	PD 0332991 isethionate (Palbociclib) can be utilized in research on the selective inhibition of



CDK4/6 in cancer.

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**Storage**

Store at -20°C.

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