

Catalog	Unit
TBI2918 - 1MG	1 mg
TBI2918 - 5MG	5 mg

### Product Details

**Formal Name:** 5-Iodo-7-β-D-ribofuranosyl-7H-pyrrolo[2,3-d]pyrimidin-4-amine

**Alternate Names:** 5-Itu; NSC-113939

**Molecular Formula:** C<sub>11</sub>H<sub>13</sub>N<sub>4</sub>O<sub>4</sub>

**Formula Weight:** 392.2

**CAS Number:** 24386-93-4

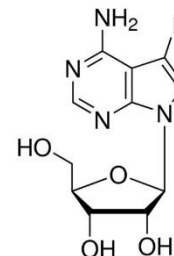
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to 20 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Adenosine kinase inhibitor

### Functions

Potent adenosine kinase inhibitor (IC<sub>50</sub> = 26 nM) and adenosine transporter inhibitor (IC<sub>50</sub> < 25 nM). Pan-specific kinase inhibitor, inhibiting CK1, insulin receptor tyrosine kinase, phosphorylase kinase, PKA, CK2 and PKC (IC<sub>50</sub> = 0.4, 3.5, 5-10, 5-10, 10.9 and 27.7 μM respectively). Decreases hippocampal DNA methylation via adenosine kinase inhibition in vivo. Blocks the centromeric recruitment of chromosome passenger complex during mitosis via inhibition of Haspin but not aurora B kinase. Useful tool for blocking the conversion of AICAR (5-aminoimidazole-4-carboxamide riboside) to AICAR-phosphate.

### Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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