

**Product Name:** EB 47

**Catalog No.:** 4140

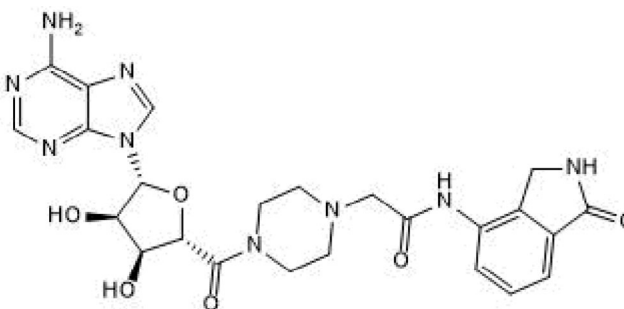
**Batch No.:** 1

CAS Number: 1190332-25-2

IUPAC Name: 5'-Deoxy-5'-[4-[2-[(2,3-Dihydro-1-oxo-1H-isoindol-4-yl)amino]-2-oxoethyl]-1-piperazinyl]-5'-oxoadenosine dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> N <sub>9</sub> O <sub>6</sub> ·2HCl·3H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	664.5
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	water to 5 mM with gentle warming DMSO to 50 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.1% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	43.38	5.31	18.97
Found	43.26	5.37	18.95

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** EB 47

**Catalog No.:** 4140

**Batch No.:** 1

CAS Number: 1190332-25-2

IUPAC Name: 5'-Deoxy-5'-[4-[2-[(2,3-Dihydro-1-oxo-1H-isoindol-4-yl)amino]-2-oxoethyl]-1-piperaziny]-5'-oxoadenosine dihydrochloride

**Description:**

EB 47 is a potent inhibitor of PARP-1 (IC<sub>50</sub> = 45 nM). Reduces infarct volume in both a rat transient middle cerebral arterial occlusion model and a cardiac reperfusion model.

**Physical and Chemical Properties:**

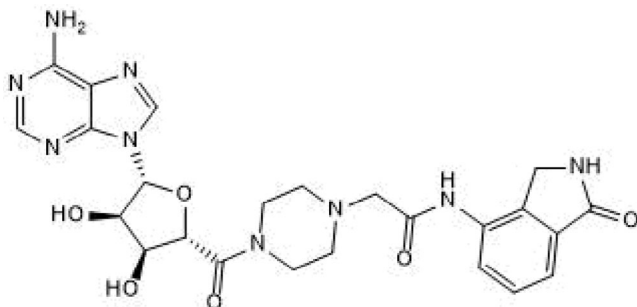
Batch Molecular Formula: C<sub>24</sub>H<sub>27</sub>N<sub>9</sub>O<sub>6</sub>·2HCl·3H<sub>2</sub>O

Batch Molecular Weight: 664.5

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 5 mM with gentle warming  
DMSO to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Ferraris et al** (2010) Evolution of poly(ADP-ribose) polymerase-1 (PARP-1) inhibitors. From concept to clinic. *J.Med.Chem.* **53** 4561. PMID: 20364863.

**Gaymes et al** (2009) Inhibitors of poly ADP-ribose polymerase (PARP) induce apoptosis of myeloid leukemic cells: potential for therapy of myeloid leukemia and myelodysplastic syndromes. *Haematologica* **94** 638. PMID: 19407318.

**Jagtap et al** (2004) The discovery and synthesis of novel adenosine substituted 2,3-dihydro-1H-isoindol-1-ones: potent inhibitors of poly (ADP-ribose) polymerase-1 (PARP-1). *Bioorg.Med.Chem.Lett.* **14** 81. PMID: 14684303.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956