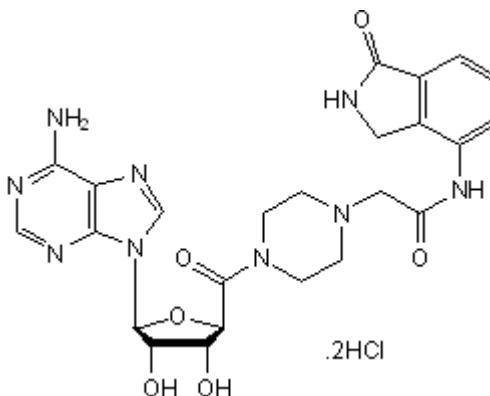


Product Name: EB 47 **Catalog No.:** 4140 **Batch No.:** 1
CAS Number: 1190332-25-2
IUPAC Name: 5'-Deoxy-5'-[4-[2-[(2,3-Dihydro-1-oxo-1H-isoindol-4-yl)amino]-2-oxoethyl]-1-piperazinyl]-5'-oxoadenosine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇N₉O₆·2HCl·3H₂O
Batch Molecular Weight: 664.5
Physical Appearance: White solid
Solubility: water to 5 mM with gentle warming
DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	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

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Description:

Potent inhibitor of PARP-1 (IC₅₀ = 45 nM). Reduces infarct volume in both a rat transient middle cerebral arterial occlusion model and a cardiac reperfusion model.

Physical and Chemical Properties:

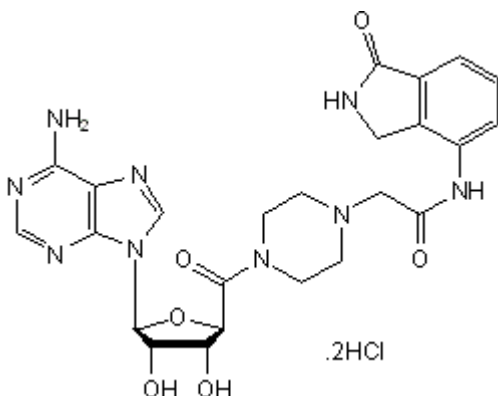
Batch Molecular Formula: C₂₄H₂₇N₉O₆.2HCl.3H₂O

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. Our standard recommendations are:

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:

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.

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.

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.

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