

Data Sheet

NAME:	Integrase Inhibitor (118-D-24)
REPOSITORY REFERENCE:	ARP969
PROVIDED:	20 mg
DESCRIPTION:	Azido-containing diketo acid derivatives are potent inhibitors of the strand transfer reaction catalyzed by HIV-1 integrase. It has been found that in the presence of azido-containing diketo acid derivatives, the frequency of 2-LTR-circle formation was increased without affecting total viral cDNA synthesis (J. Virol. 78 :3210, 2004).
CHEMICAL NAME:	4-[3-(azidomethyl)phenyl]-2-hydroxy-4-oxo-2-butenic acid
MOLECULAR FORMULA:	C ₁₁ H ₉ N ₃ O ₄
MOLECULAR WEIGHT:	247.2
SOLUBILITY:	Soluble in common organic solvents; insoluble in water.
RECOMMENDED STORAGE:	Room temperature.
SOURCE:	NIH AIDS Research and Reference Reagent Program, Division of AIDS, NIAID.

REFERENCES:

Svarovskaia ES, Barr R, Zhang X, Pais GC, Marchand C, Pommier Y, Burke TR Jr, Pathak VK. Azido-containing diketo acid derivatives inhibit human immunodeficiency virus type 1 integrase in vivo and influence the frequency of deletions at two-long-terminal-repeat-circle junctions. *Journal of Virology*. **78**:3210-22, 2004.

Zhang X, Pais GC, Svarovskaia ES, Marchand C, Johnson AA, Karki RG, Nicklaus MC, Pathak VK, Pommier Y, Burke TR. Azido-containing aryl beta-diketo acid HIV-1 integrase inhibitors. *Bioorg Med Chem Lett*. **13**:1215-1219, 2003.

ACKNOWLEDGEMENTS:

Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at <http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html> in the "Acknowledgements" section.

Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)