

3 Supplementary Figure 1b:







Supplementary Figure 2: BI 224436 has low cellular cytotoxicity. The cellular cytotoxicity of
BI 224436 was evaluated following the incubation of different concentrations of inhibitor with
C8166 cells for three days using the MTT assay. Data shown is an average of two separate
experiments with error bars indicating the standard deviation.

19 Supplementary Table 1: Mutations observed in the integrase gene of HIV-1 variants selected *in*

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vitro in the presence of BI 224436.

Starting concentration of BI 224436	Variant residues identified in the integrase gene at different passages (Number of times a substitute was identified on the total number of clones)sequenced)	
(nM)	Passage 4	Passage 14
20	A128T (6/6)	A128T/N222K (5/10) L102N/N222K (5/10)
50	A128T (8/8)	A128T (3/6) A128N (3/6)

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Supplementary Figure 3: Representative dose-response curves for the inhibition by BI 224436
of the LTR DNA 3' processing activity of wild type integrase and integrase containing the amino
acid substitutions A128T or L102F.