

Structure–metabolism relationships of 4-pentenyl synthetic
cannabinoid receptor agonists using *in vitro* human hepatocyte
incubations and high-resolution mass spectrometry

Supplementary Information for Archives of Toxicology – Metabolic
Pathway Figures

Steven R Baginski^{1,*}, Karin Lindbom², Bryan Valencia Crespo³, Ghidaa Bessa³,
Tobias Rautio³, Xiongyu Wu³, Johan Dahlén³, Lorna A Nisbet¹, Craig McKenzie^{1,4},
Henrik Gréen^{2,5,*}

¹ Leverhulme Research Centre for Forensic Science, School of Science and Engineering,
University of Dundee, Dundee, UK

² Division of Clinical Chemistry and Pharmacology, Department of Biomedical and Clinical
Sciences, Linköping University, Linköping, Sweden

³ Department of Physics, Chemistry and Biology, Linköping University, Linköping, Sweden

⁴ Chiron AS, Trondheim, Norway

⁵ Department of Forensic Genetics and Forensic Toxicology, National Board of Forensic
Medicine, Linköping, Sweden

*Corresponding authors:

Steven Baginski, sbaginski001@dundee.ac.uk and Henrik Gréen, henrik.green@liu.se

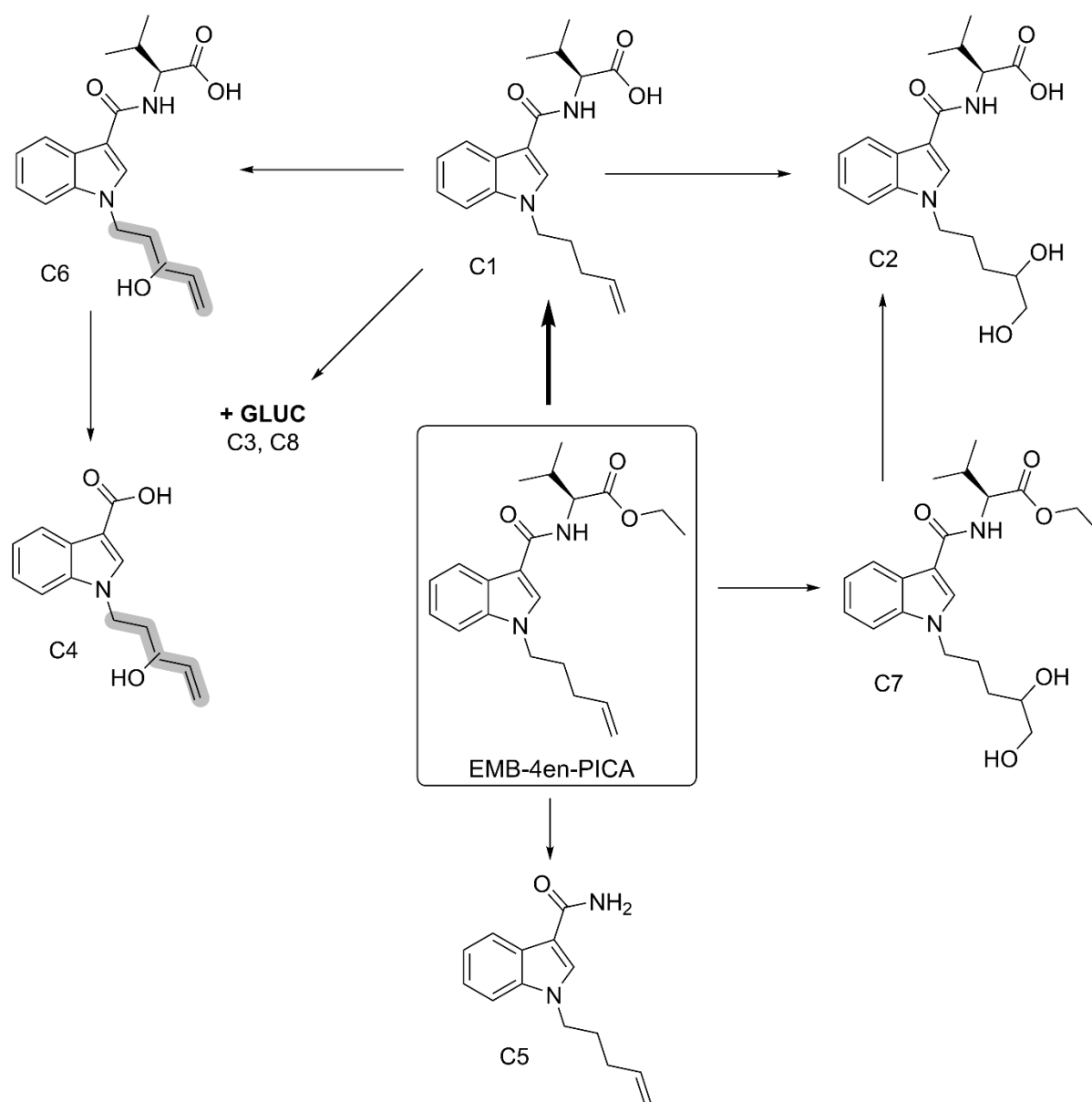


Fig. S3 Proposed metabolic pathways of EMB-4en-PICA following incubation with human hepatocytes

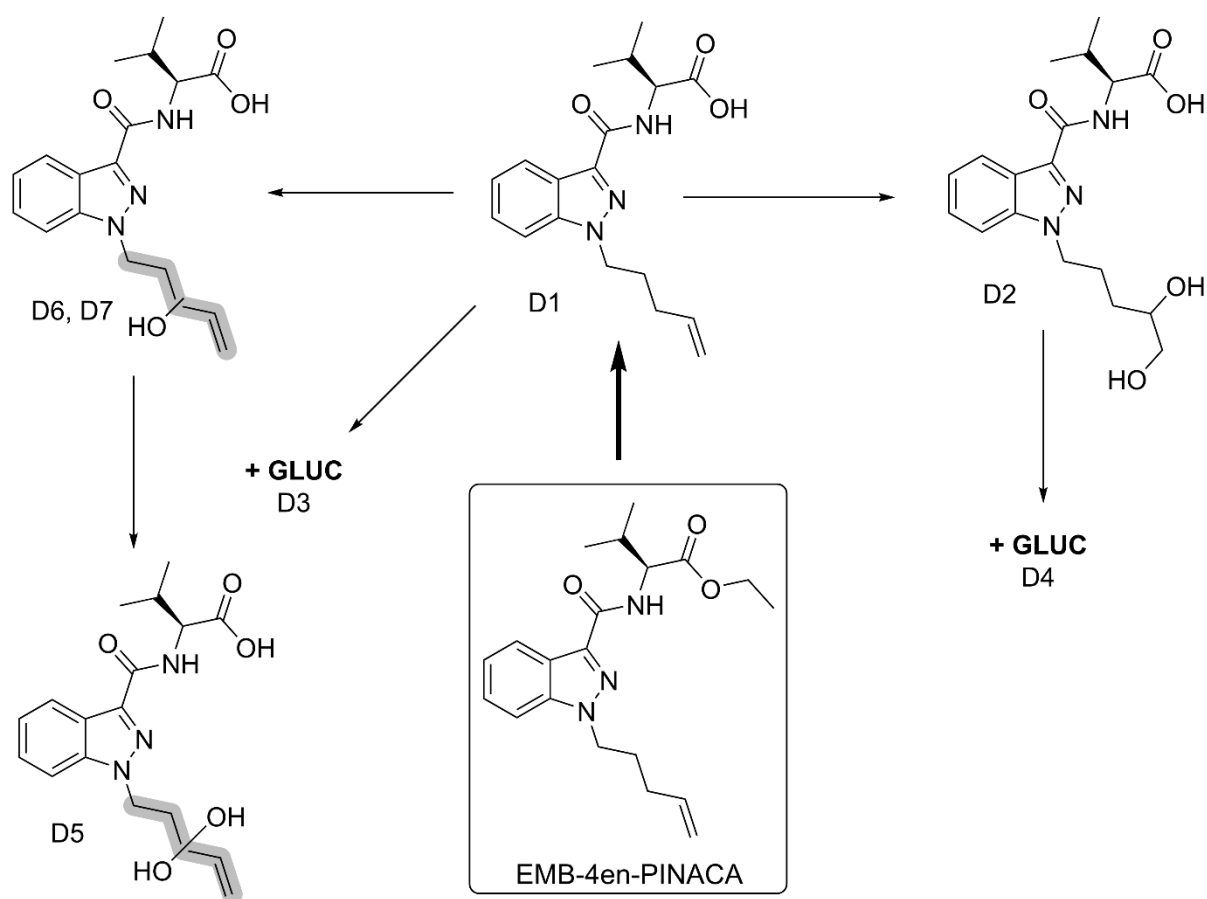


Fig. S4 Proposed metabolic pathways of EMB-4en-PINACA following incubation with human hepatocytes

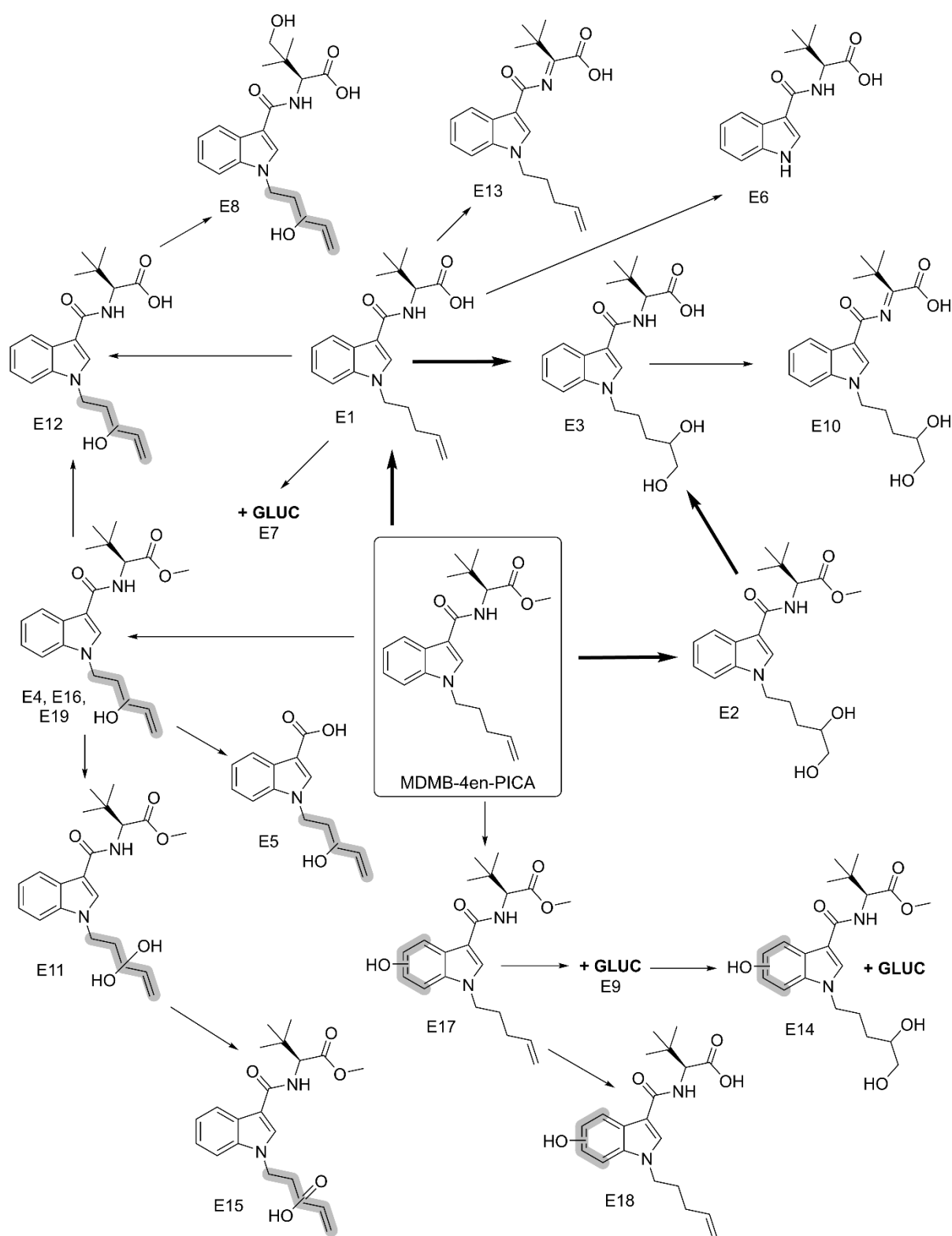


Fig. S5 Proposed metabolic pathways of MDMB-4en-PICA following incubation with human hepatocytes

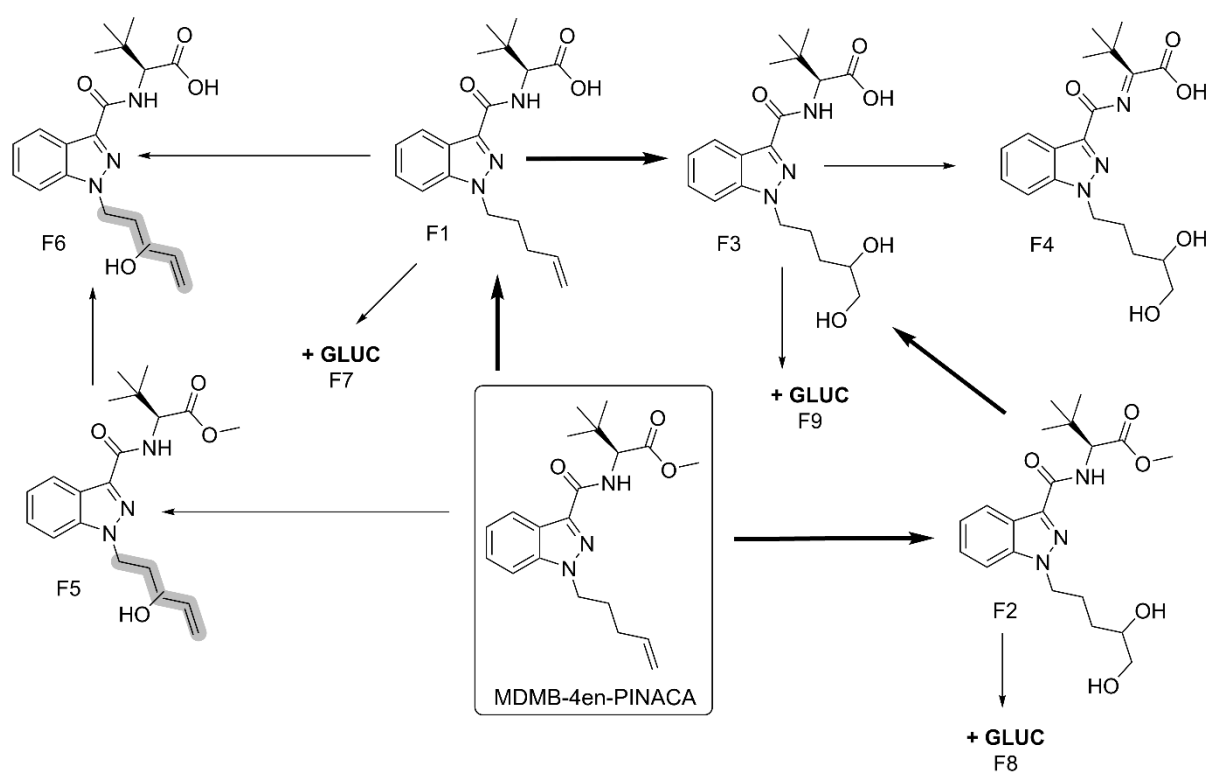


Fig. S6 Proposed metabolic pathways of MDMB-4en-PINACA following incubation with human hepatocytes

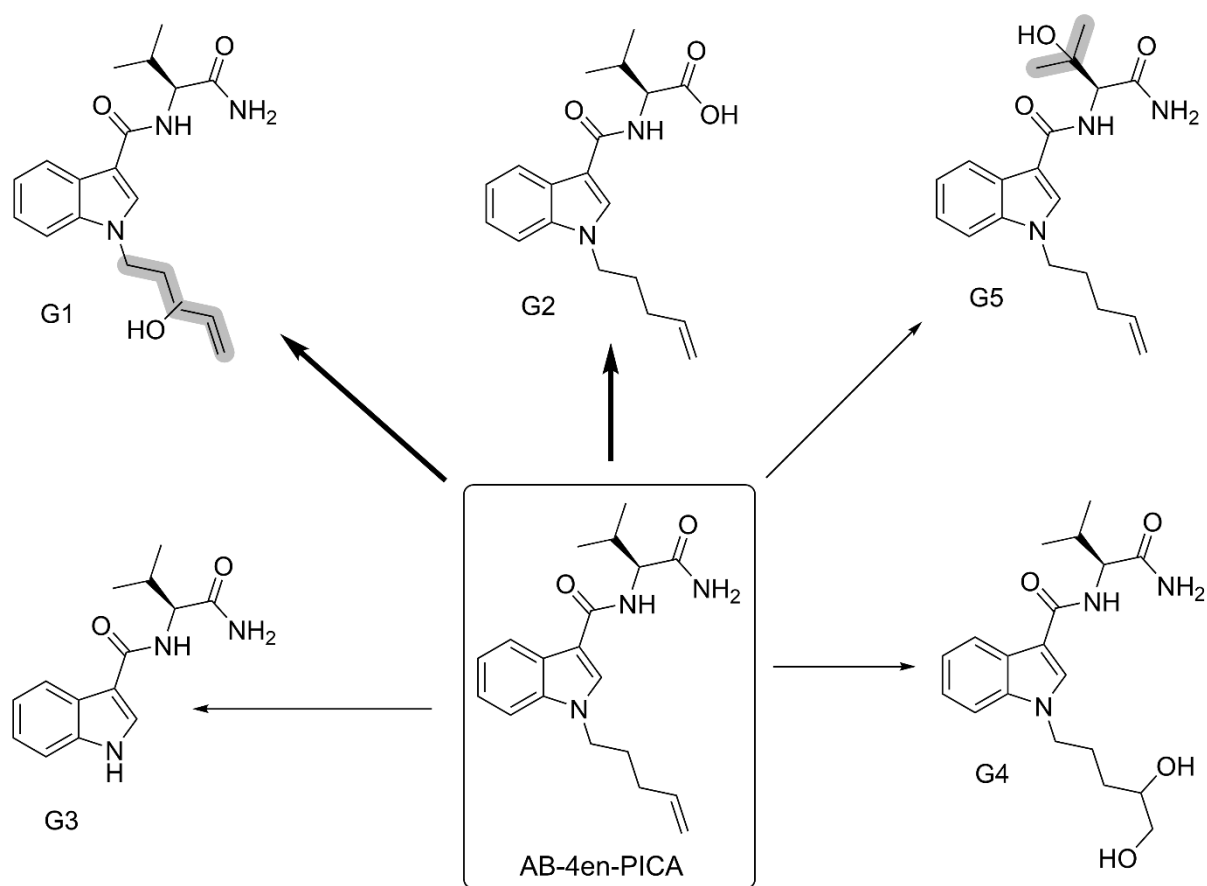


Fig. S7 Proposed metabolic pathways of AB-4en-PICA following incubation with human hepatocytes

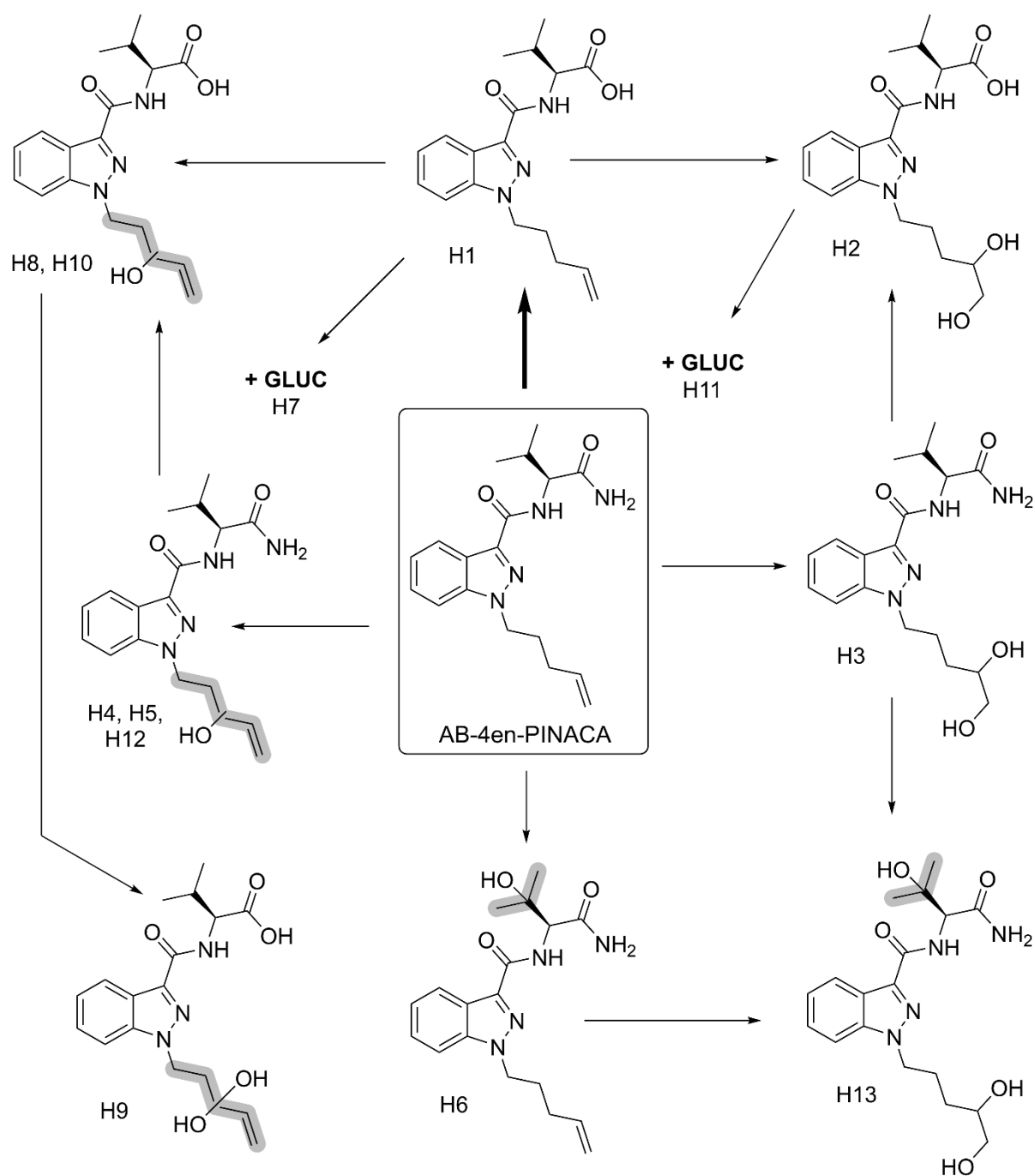


Fig. S8 Proposed metabolic pathways of AB-4en-PINACA following incubation with human hepatocytes

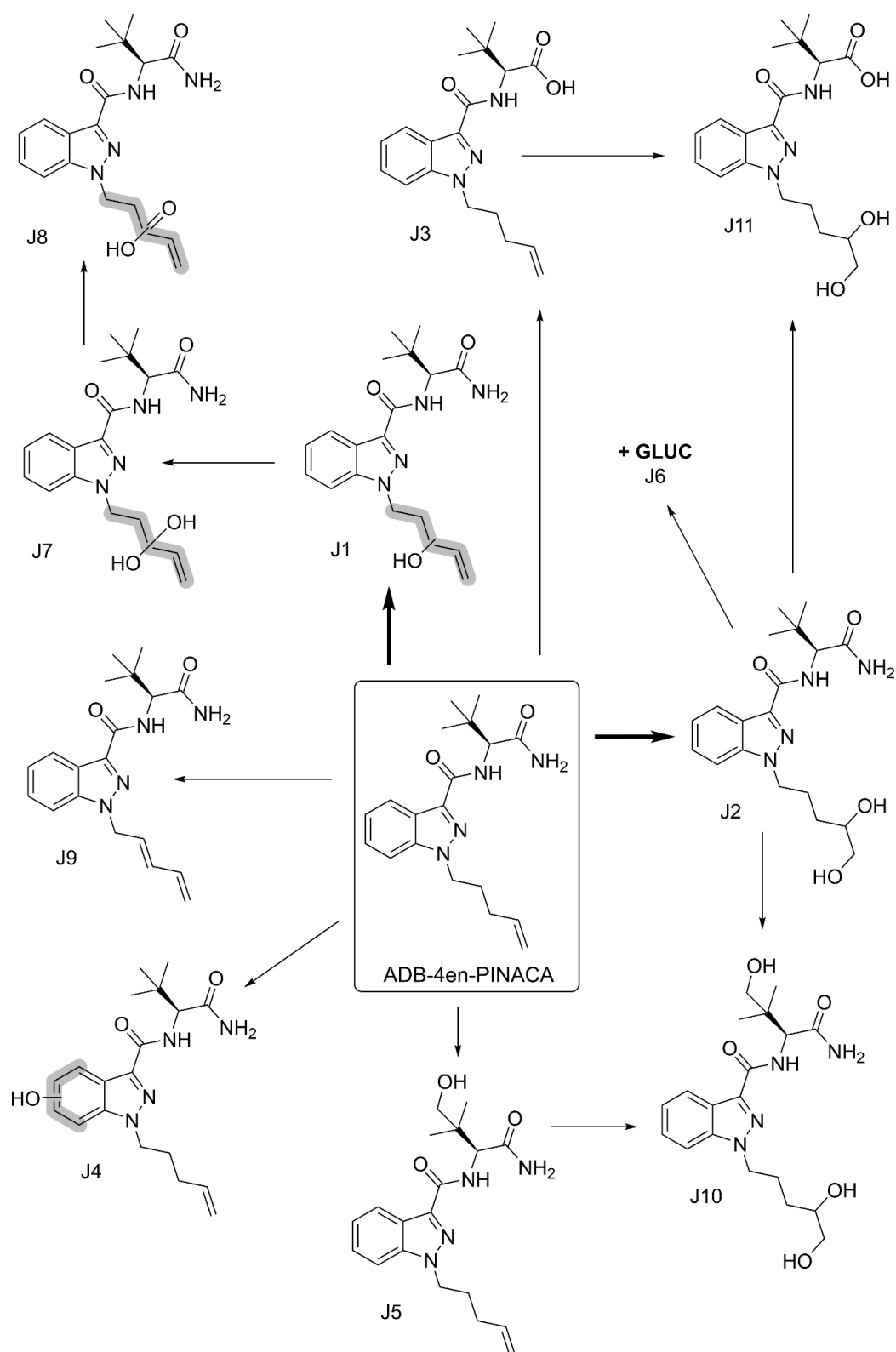


Fig. S10 Proposed metabolic pathways of ADB-4en-PINACA following incubation with human hepatocytes

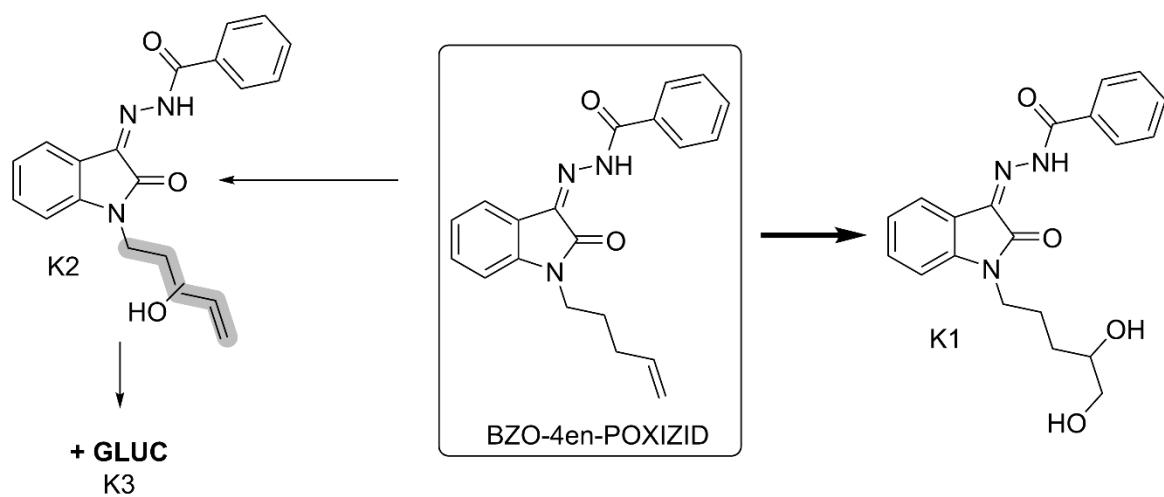


Fig. S11 Proposed metabolic pathways of BZO-4en-POXIZID following incubation with human hepatocytes