

**Table S1:** Selected reaction monitoring (SRM) of DNPS metabolites

STANDARD			Treatment with <sup>13</sup> C <sub>2</sub> - FGAR			Treatment with <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N - AIR			Treatment with <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> - SAICAR			Treatment with <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> - AICAR		
name	MS1	MS2	name	MS1	MS2	name	MS1	MS2	name	MS1	MS2	name	MS1	MS2
GAR	287.1	75.1	<sup>13</sup> C <sub>2</sub> -GAR	289.1	77.1	<sup>13</sup> C <sub>2</sub> -GAR	289.1	77.1						
GAr	207.1	75.1	<sup>13</sup> C <sub>2</sub> -GAr	209.1	77.1	<sup>13</sup> C <sub>2</sub> -GAr	209.1	77.1						
FGAR	315.1	103	<sup>13</sup> C <sub>2</sub> -FGAR	317.1	105	<sup>13</sup> C <sub>2</sub> -FGAR	317.1	105						
FGAr	235.1	103.1	<sup>13</sup> C <sub>2</sub> -FGAr	237.1	105.1	<sup>13</sup> C <sub>2</sub> -FGAr	237.1	105.1						
FGAMR	314.2	102.1	<sup>13</sup> C <sub>2</sub> -FGAMR	316.2	104.1									
FGAMr	234.1	102.1	<sup>13</sup> C <sub>2</sub> -FGAMr	236.1	104.1									
AIR	296.2	84	<sup>13</sup> C <sub>2</sub> -AIR	298.2	86	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-AIR	299.2	87						
AIr	216.2	84	<sup>13</sup> C <sub>2</sub> -AIr	218.2	86	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-AIr	219.2	87						
CAIR	340.2	128.2	<sup>13</sup> C <sub>2</sub> -CAIR	342.2	130.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-CAIR	343.1	131.2						
	340.2	110.2				<sup>13</sup> C <sub>2</sub> -CAIR	342.1	130.2						
CAIr	260.2	128.2	<sup>13</sup> C <sub>2</sub> -CAIr	262.2	130.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-CAIr	263.1	131.2						
SAICAR	455.2	243.0	<sup>13</sup> C <sub>2</sub> -SAICAR	457.2	245.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-SAICAR	458.2	246.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAICAR	459.2	247.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAICAR	459.2	247.0
SAICAr	375.2	243.0	<sup>13</sup> C <sub>2</sub> -SAICAr	377.2	245.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-SAICAr	378.2	246.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAICAr	379.2	247.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAICAr	379.2	247.0
AICAR	339.2	110.2	<sup>13</sup> C <sub>2</sub> -AICAR	341.2	112.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-AICAR	342.2	113.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -AICAR	343.2	113.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -AICAR	343.2	113.2
	339.2	127.2		341.2	129.2					343.2	131.2		343.2	131.2
AICAr	259.2	127.2	<sup>13</sup> C <sub>2</sub> -AICAr	261.2	129.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-AICAr	262.2	130.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -AICAr	263.2	131.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -AICAr	263.2	131.2
FAICAR	367.1	155.1	<sup>13</sup> C <sub>2</sub> -FAICAR	369.1	157.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-FAICAR	370.1	158.1				<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -FAICAR	371.1	159.2
FAICAr	287.2	138.2	<sup>13</sup> C <sub>2</sub> -FAICAr	289.2	140.2	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-FAICAr	290.2	141.2				<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -FAICAr	291.2	141.1
													291.2	142.1
IMP	349.1	137.0	<sup>13</sup> C <sub>2</sub> -IMP	351.1	139	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-IMP	352.1	140	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -IMP	353.1	141	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -IMP	353.1	141
inosine	269.0	137.0	<sup>13</sup> C <sub>2</sub> -inosine	271.0	139.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-inosine	272.0	140.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -inosine	273.0	141.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -inosine	273.0	141.0
xanthine	153.1	110.1	<sup>13</sup> C <sub>2</sub> -xanthine	155.1	112.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-xanthine	156.1	113.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -xanthine	157.1	139.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -xanthine	157.1	139.0
	153.1	136.0		155.1	138								157.1	113.1
hypoxanthine	137.1	110.1	<sup>13</sup> C <sub>2</sub> -hypoxanthine	139.1	112.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-hypoxanthine	140.1	113.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -hypoxanthine	141.1	114.1	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -hypoxanthine	141.1	114.1
	137.1	119.0		139.1	121.0					141.1	123		141.1	123
										141.1	113.1		141.1	113.1
SAdo	384.2	252	<sup>13</sup> C <sub>2</sub> -SAdo	386.2	254	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-SAdo	387.2	255.1				<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAdo	388.2	256.1
SAMP	464.1	251.7	<sup>13</sup> C <sub>2</sub> -SAMP	466.1	253.7	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-SAMP	467.1	254.7				<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -SAMP	468.1	255.7
uric acid	169.3	141.0	<sup>13</sup> C <sub>2</sub> -uric acid	171.3	143.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N-uric acid	172.3	144.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -uric acid	173.3	145.0	<sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> -uric acid	173.3	145.0

