

SSD 1. The transporter proteins identified from the intra- and extracellular components following exposure of CL-6 cells to β -eudesmol for 24 and 48 hours.

The transporter proteins for 24 hour		
Protein names	Protein names	Protein names
Amiloride-sensitive sodium channel subunit gamma	Neuronal acetylcholine receptor subunit beta-3	Sortilin
Calcium-activated chloride channel regulator 4	Phospholipid-transporting ATPase IB	Syntaxin-18
Calcium-binding mitochondrial carrier protein SCaMC-3	Polycystic kidney disease protein 1-like 3	Transient receptor potential cation channel subfamily V member 4
Caprin-2	Potassium-transporting ATPase subunit beta	Transient receptor potential cation channel subfamily V member 6
Gamma-aminobutyric acid receptor subunit epsilon	Probable G-protein coupled receptor 158	Transmembrane 9 superfamily member 2
Importin-5	Probable phospholipid-transporting ATPase IIA	Transmembrane 9 superfamily member 3
Mitochondrial inner membrane protein OXA1L	Protein Shroom1	Voltage-dependent L-type calcium channel subunit beta-2
Multidrug resistance-associated protein 6	Retinal-specific ATP-binding cassette transporter	Zinc transporter 3
Neuronal acetylcholine receptor subunit alpha-10	Small conductance calcium-activated potassium channel protein 3	
The transporter proteins for 48 hour		
Protein names	Protein names	Protein names
ATP-binding cassette sub-family G member 8	Mitochondrial inner membrane protein OXA1L	Probable phospholipid-transporting ATPase IIA
Calcium-binding mitochondrial carrier protein SCaMC-3	Neuronal acetylcholine receptor subunit alpha-10	Sodium/bile acid cotransporter
Cystic fibrosis transmembrane conductance regulator	Neuronal acetylcholine receptor subunit beta-3	Solute carrier family 13 member 4
Excitatory amino acid transporter 5	Phospholipid-transporting ATPase IB	Syntaxin-18
Gamma-aminobutyric acid receptor subunit epsilon	Polycystic kidney disease protein 1-like 2	Transient receptor potential cation channel subfamily V member 4
Importin-5	Polycystic kidney disease protein 1-like 3	Transient receptor potential cation channel subfamily V member 6

SSD 2. The fold changes of peak areas of the metabolites identified from the intra- and extracellular components following exposure of CL-6 cells to β -eudesmol for 24 hours.

Up-regulated intracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Choline	19.65	Dimethylglycine	4.78	Leucine-isoleucine	2.83
Nicotinamide	9.41	Cytidine	3.53	Cystine	2.36
Deoxyribose-phosphate	6.11	Phenylpyruvate	3.30	Ribose-phosphate	2.28
Down-regulated intracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Glutathione disulfide	90.75	Sarcosine	5.33	dGMP	3.71
6-phospho-D-gluconate	12.66	UTP	5.31	Tryptophan	3.65
Betaine	12.46	Carnitine	5.22	Citrulline	3.65
Glucose-1-phosphate	11.44	Kynurenic acid	5.17	Citrate	3.64
Pyridoxamine	11.41	Tyrosine	5.14	Indole	3.42
Lactate	10.88	2,3-dihydroxybenzoic acid	5.13	1,3-diphosphateglycerate	3.23
Imidazoleacetic acid	10.79	Phenylalanine	5.02	Aspartate	3.16
Serine	10.28	Taurine	4.99	Orotate	3.16
Adenine	9.78	Glutamine	4.86	2-dehydro-D-gluconate	3.02
Thymidine	9.08	Xanthine	4.79	Acetylphosphate	2.89
NAD+	8.60	Octulose-1,8-bisphosphate (OBP)	4.78	Pyridoxine	2.85
Adenosine	7.94	Phosphorylcholine	4.64	p-hydroxybenzoate	2.83
Folate	7.93	Citrate-isocitrate	4.58	CDP	2.81
4-aminobutyrate	7.41	Glucosamine	4.57	Hydroxyphenylacetic acid	2.72
Proline	7.21	Acetylcarnitine DL	4.53	Dihydroorotate	2.59
Biotin	7.12	Cholesteryl sulfate	4.47	D-gluconate	2.45
Pyroglutamic acid	7.12	Acadesine	4.36	dAMP	2.39
2-Hydroxy-2-methylthiobutanoate	7.03	Succinate	4.35	Xanthurenic acid	2.37
N-acetyl-glutamine	7.03	Methionine	4.35	Allantoate	2.27
Uric acid	6.88	N-carbamoyl-L-aspartate	4.33	Pantothenate	2.27
N-acetyl-glutamate	6.86	Glycerate	4.18	Taurodeoxycholic acid	2.26
Cellobiose	6.44	Phenylpropionic acid	4.10	SN-glycerol-3-phosphate	2.23
GMP	6.22	Methylcysteine	4.06	A-ketoglutarate	2.22
Kynurenine	6.21	2-ketohexanoic acid	4.04	Thymine	2.17
Purine	6.17	Methylnicotinamide	4.00	Malate	2.11
1-Methyladenosine	6.14	1-Methyl-Histidine	3.94	Hexose-phosphate	2.09
Methionine sulfoxide	6.04	Asparagine	3.94	AMP	2.08
Valine	5.55	Creatinine	3.93		
ATP	5.39	Histidine	3.76		
Up-regulated extracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Cytidine	28.29	Lysine	3.11	Methionine sulfoxide	2.61
Methylnicotinamide	12.00	N-acetyl-glutamine	3.06	Methionine	2.51
Folate	3.92	Acadesine	2.98	Imidazoleacetic acid	2.50
Threonine	3.91	Citrulline	2.84	Choline	2.50
Sarcosine	3.76	Glutamine	2.84	Purine	2.44
Serine	3.76	Pyridoxamine	2.81	AMP	2.43
Tyrosine	3.51	Ng,NG-dimethyl-L-arginine	2.74	Hydroxyproline	2.41
Proline	3.49	Acetylcarnitine DL	2.74	Phosphorylcholine	2.33
Arginine	3.26	Ornithine	2.73	Aspartate	2.33

Acetyllysine	3.26	Creatine	2.66	Indole	2.17
N-Acetyl-L-ornithine	3.15	ATP	2.64	Glycerophosphocholine	2.06
1-Methyl-Histidine	3.12	Histidine	2.62	DL-Pipecolic acid	2.01
Adenosine	3.12	Glutamate	2.61		
Down-regulated extracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Deoxyribose-phosphate	26.64	Allantoate	5.25	N-Acetyl-L-alanine	3.03
Glutathione disulfide	22.57	Uric acid	5.14	Orotate	2.94
N-carbamoyl-L-aspartate	16.85	Octulose-1,8-bisphosphate (OBP)	4.91	Phenylpropionic acid	2.81
2-dehydro-D-gluconate	16.82	Shikimate	4.85	GMP	2.79
Citrate	13.52	Taurodeoxycholic acid	4.36	Glucono-D-lactone	2.75
Ribose-phosphate	10.18	Hydroxyphenylacetic acid	4.24	6-phospho-D-glucono-1,5-lactone	2.72
D-gluconate	7.82	2-ketohaxanoic acid	4.23	Pantothenate	2.61
4-Pyridoxic acid	7.61	Malate	3.41	Shikimate-3-phosphate	2.61
Cholesteryl sulfate	7.16	Aconitate	3.37	Xanthurenic acid	2.20
Allantoin	6.36	6-phospho-D-gluconate	3.36	Hexose-phosphate	2.16
Citraconic acid	5.91	2,3-dihydroxybenzoic acid	3.34	p-hydroxybenzoate	2.06
Phenylpyruvate	5.52	Glucose-1-phosphate	3.32		
Citrate-isocitrate	5.43	Xanthine	3.31		

SSD 3. The fold changes of peak areas of the metabolites identified from the intra- and extracellular components following exposure of CL-6 cells to β -eudesmol for 48 hours.

Up-regulated intracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Taurodeoxycholic acid	35.69	Allantoate	5.07	Thymidine	3.26
Acetylphosphate	25.89	Glycerophosphocholine	4.98	6-phospho-D-glucono-1,5-lactone	3.25
Shikimate-3-phosphate	21.38	Ribose-phosphate	4.92	Acetyllysine	3.20
Aconitate	18.82	Deoxyribose-phosphate	4.78	N-Acetyl-L-ornithine	3.14
Allantoin	18.52	Hexose-phosphate	4.65	Serine	3.09
Cytidine	17.72	N-carbamoyl-L-aspartate	4.65	Phenylpyruvate	2.99
4-Pyridoxic acid	13.27	p-hydroxybenzoate	4.62	Threonine	2.73
Cystine	13.09	Citrate	4.55	Acadesine	2.71
2-oxo-4-methylthiobutanoate	12.96	Hydroxyisocaproic acid	4.52	Lysine	2.63
2-ketohexanoic acid	11.95	Citraconic acid	4.34	Uric acid	2.34
Shikimate	11.79	Taurine	4.25	Methionine sulfoxide	2.32
Xanthine	10.35	A-ketoglutarate	4.23	Lactate	2.30
Glycerate	9.49	Orotate	4.16	Glucose-1-phosphate	2.26
2-Aminooctanoic acid	8.52	Dihydroorotate	4.13	DL-Pipecolic acid	2.26
2-dehydro-D-gluconate	8.48	Xanthurenic acid	4.07	Citrate-isocitrate	2.26
Cholesteryl sulfate	7.38	2,3-dihydroxybenzoic acid	3.98	Malate	2.25
Kynurenic acid	7.21	Methylmalonic acid	3.86	Purine	2.24
Pantothenate	6.12	Phenylpropionic acid	3.82	Citrulline	2.23
Orotidine-5-phosphate	5.97	Glucono-D-lactone	3.80	Glucosamine	2.21
Octulose-1,8-bisphosphate (OBP)	5.44	L-arginino-succinate	3.59	Thymine	2.16
Hydroxyphenylacetic acid	5.39	1,3-diphosphateglycerate	3.53	2-Hydroxy-2-methylthiobutanoate	2.09
Cellobiose	5.38	Pyroglutamic acid	3.49	Adenosine	2.03
D-gluconate	5.35	S-ribosyl-L-homocysteine	3.42	Methylcysteine	2.03
CDP	5.24	Ornithine	3.31		
Down-regulated intracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Glutathione disulfide	81.61	dAMP	4.80	1-Methyladenosine	4.06
GMP	63.20	NAD+	4.76	IMP	3.53
AMP	7.61	N-acetyl-glutamine	4.56	UMP	2.44
Up-regulated extracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Methylnicotinamide	12.54	Pyridoxamine	3.21	Citraconic acid	2.49
N-acetyl-glutamate	6.02	Glycerate	2.94	UDP-D-glucose	2.37
S-ribosyl-L-homocysteine	5.90	Methionine	2.81	Phosphorylcholine	2.18
GMP	5.18	Methionine sulfoxide	2.66	ATP	2.12
Serine	5.03	Glucosamine	2.58		
2,3-dihydroxybenzoic acid	4.78	1-Methyladenosine	2.54		
Down-regulated extracellular metabolites					
Metabolite Names	Fold change	Metabolite Names	Fold change	Metabolite Names	Fold change
Glutathione disulfide	143.95	Hydroxyphenylacetic acid	3.61	2-Hydroxy-2-methylthiobutanoate	2.33
CDP	9.97	Octulose-1,8-	3.59	Uric acid	2.33

bisphosphate (OBP)					
Citrate	7.31	N-acetyl-glutamine	3.53	N-carbamoyl-L-aspartate	2.30
2-dehydro-D-gluconate	7.30	Folate	3.29	Allantoin	2.30
Phenylpyruvate	6.76	D-gluconate	3.17	Acetylphosphate	2.24
Hydroxyisocaproic acid	6.33	Xanthurenic acid	3.01	Sarcosine	2.20
Deoxyribose-phosphate	5.17	Glucono-D-lactone	2.95	Aspartate	2.18
UTP	5.00	Acetylcarnitine DL	2.91	Alanine	2.17
2-ketohaxanoic acid	4.56	Xanthine	2.85	UMP	2.13
Thiamine	4.15	6-phospho-D-gluconate	2.79	Cholesteryl sulfate	2.09
Citrate-isocitrate	4.12	1,3-diphosphateglycerate	2.60	Allantoate	2.08
2-oxo-4-methylthiobutanoate	3.95	Imidazoleacetic acid	2.48	Hydroxyproline	2.05
Shikimate-3-phosphate	3.75	N-Acetyl-L-alanine	2.48	Shikimate	2.05
Adenine	3.62	4-aminobutyrate	2.40	Thymidine	2.05