

GC-MS/MS 測定対象代謝物リスト

分類	物質名	分類	物質名
解糖系/ 糖新生	Glucose		2-Aminopimelic acid
	Glucose-6-phosphate		2-Hydroxyhippuric acid
	Fructose-6-phosphate		2-Methylhippuric acid
	Dihydroxyacetone phosphate		3-Aminoglutamic acid
	Glyceraldehyde 3-phosphate		3-Aminoisobutyric acid
	3-Phosphoglyceric acid		3-Aminopropanoic acid
	2-Phosphoglyceric acid		3-Hydroxyanthranilic acid
	Phosphoenolpyruvic acid		3-Hydroxy-kynurenine
	Pyruvic acid		3-Methylcrotonoylglycine
	Lactic acid		3-Sulfinoalanine
TCAサイクル	Citric acid	4-Aminobenzoic acid	
	Aconitic acid	5-Aminolevulinic acid	
	Isocitric acid	5-Aminovaleric acid	
	2-Ketoglutaric acid	5-Hydroxy-tryptophan	
	Succinic acid	Acetylglycine	
	Fumaric acid	Anthranilic acid	
	Malic acid	Cystathionine	
ペントース リン酸経路	Oxaloacetic acid	Cysteic acid	
	6-Phosphogluconic acid	Dimethylglycine	
	Ribulose-5-phosphate	Glutamic acid 5-methylester	
	Ribose-5-phosphate	Hexanoylglycine	
	Sedoheptulose-7-phosphate	Hippuric acid	
	Erythrose-4-phosphate	Histidinol	
アミノ酸	Alanine	Hypotaurine	
	Arginine	Indol-3-acetic acid	
	Asparagine	Isobutyrylglycine	
	Aspartic acid	Isovalerylglycine	
	Cysteine	Kynurenic acid	
	Glutamic acid	Methionine sulfone	
	Glutamine	<i>N</i> -Acetyl-aspartic acid	
	Glycine	<i>N</i> -Acetyl-glutamine	
	Histidine	<i>N</i> -Acetyl-lysine	
	Isoleucine	<i>N</i> -Acetyl-ornithine	
	Leucine	<i>N</i> -Acetyl-serine	
	Lysine	<i>N</i> -Acetyl-tyrosine	
	Methionine	<i>N</i> -Butyrylglycine	
	Phenylalanine	Norvaline	
	Proline	<i>O</i> -Acetyl-serine	
	Serine	<i>O</i> -Phosphoserine	
	Threonine	<i>p</i> -Aminohippuric acid	
Tryptophan	Saccharopine		
Tyrosine	<i>S</i> -Benzyl-Cysteine		
Valine	Suberylglycine		
ジペプチド	Carnosine	<i>threo</i> - β -hydroxyaspartic acid	
	Glycyl-Glycine	Tiglylglycine	
その他 アミノ酸	2-Aminoadipic acid	Ureidopropionic acid	
	2-Aminobutyric acid	Ureidosuccinic acid	
	2-Aminoisobutyric acid	2-Aminoethanol	
	2-Amino-octanoic acid	3,4-Dihydroxybenzylamine	
	4-Aminobutyric acid(GABA)	5-Methoxytryptamine	
	4-Hydroxyproline	Cadaverine	
	5-Oxoproline (Pyroglutamic acid)	Cystine	
	Citrulline	Dopamine	
	Creatinine	Fendiline	
	Dopa	Histamine	
	Homocysteine	Octopamine	
	Homocystine	Putrescine	
	Homoserine	Spermidine	
	Kynurenine	Spermine	
	Ornithine	Tryptamine	
	Sarcosine	Tyramine	
	Taurine	Vanillylamine	
		その他 アミノ酸	

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核酸	2-Deoxyuridine	その他 有機酸	3-Hydroxyglutaric acid
	3,5-cyclicAMP		3-Hydroxyisobutyric acid
	5-Methylthioadenosine		3-Hydroxyisovaleric acid
	7-Methylguanine		3-Hydroxyphenylacetic acid
	Adenine		3-Hydroxypropionic acid
	Adenosine		3-Hydroxypyruvic acid
	AMP		3-Methoxy-4-hydroxybenzoic acid
	Cytidine		3-Methyl-2-oxovaleric acid
	Cytosine		3-Phenyllactic acid
	Dihydrouracil		4-Hydroxybenzoic acid
	Guanine		4-Hydroxyphenylacetic acid
	Guanosine		4-Hydroxyphenyllactic acid
	Hypoxanthine		4-Hydroxyphenylpyruvic acid
	IMP		5-Hydroxymethyl-2-furoic acid
	Inosine		Acetoacetic acid
	Paraxanthine		Adipic acid
	Thymidine		Azelaic acid
	Thymine		Benzoic acid
	TMP		Citramalic acid
	UMP		Coniferyl aldehyde
	Uracil		Ethylmalonic acid
	Uric acid		Glutaconic acid
	Uridine		Glutaric acid
Xanthine	Glycolic acid		
Xanthosine	Glyoxylic acid		
XMP	Homogentisic acid		
脂肪酸	Arachidonic acid	Homovanillic acid	
	Caproic acid	Juniperic acid	
	Decanoic acid	Maleic acid	
	Docosahexaenoic acid	Malonic acid	
	Docosapentaenoic acid	Mesaconic acid	
	Dodecanedioic acid	Methoprene acid	
	Eicosapentaenoic acid	Methylmalonic acid	
	Elaidic acid	Methylsuccinic acid	
	Lauric acid	Oxalic acid	
	Linoleic acid	Phenylacetic acid	
	Margaric acid	Phenylpyruvic acid	
	Myristic acid	Pimelic acid	
	Nonanoic acid	Protocatechuic acid	
	Octanoic acid	Sebacic acid	
	Oleic acid	Shikimic acid	
	Palmitic acid	Suberic acid	
	Palmitoleic acid	Succinylacetone	
	Stearic acid	Tartaric acid	
	その他 有機酸	2-Hydroxyglutaric acid	Tropic acid
		2-Hydroxyisobutyric acid	Valproic acid
2-Hydroxyisocaproic acid		Vanillylmandelic acid	
2-Hydroxyisovaleric acid		1,5-Anhydro-glucitol	
2-Isopropylmalic acid		1,6-Anhydroglucose	
2-Ketoadipic acid		2-Deoxy-glucose	
2-Ketobutyric acid		5-Dehydroquinic acid	
2-Ketoisocaproic acid		Allose	
2-Keto-isovaleric acid		Arabinose	
2-Methyl-3-hydroxybutyric acid		Arabitol	
2-Propyl-3-hydroxy-pentanoic acid		Dihydroxyacetone	
2-Propyl-5-hydroxy-pentanoic acid		D-Xylulose	
2-Propyl-glutaric acid		Erythrulose	
3-Dehydroshikimic acid		Fructose	
3-Methyladipic acid		Fucose	
3-Methylglutaric acid		Galactitol	
3-Hydroxy-3-methylglutaric acid		Galactosamine	
3-Hydroxybutyric acid		Galactose	
		その他 糖類	

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分類	物質名	分類	物質名
その他 糖類	Galacturonic acid	その他物質	Cholesterol
	Glucaric acid		Coniferyl alcohol
	Gluconic acid		Cystamine
	Glucono-1,4-lactone		Dihydroorotic acid
	Glucono-1,5-lactone		Epinephrine
	Glucosamine		Hydroquinone
	Glucuronic acid		Hydroxylamine
	Glyceraldehyde		Lipoic acid
	Glyceric acid		Melatonin
	Glycerol		Metoprolol
	Inositol		Mevalonic lactone
	Isomaltose		Monostearin
	Lactitol		Niacinamide
	Lactose		Nicotinic acid
	Lyxose		Norepinephrine
	Maltitol		Octadecanol
	Maltose		Oleamide
	Mannitol		O-Phosphoethanolamine
	Mannose		Orotic acid
	<i>meso</i> -Erythritol		Pantothenic acid
	<i>N</i> -Acetylmannosamine		Phosphoric acid
	<i>N</i> -Acetylneuraminic acid		Porphobilinogen
	Psicose		Pyridoxal
	Rhamnose		Pyridoxamine
	Ribitol		Pyridoxine
	Ribonic acid		Pyrogallol
	Ribonolactone		Quinolinic acid
	Ribose		Thiodiglycolic acid
	Ribulose		Triethanolamine
	Sorbitol		Urea
	Sorbose		Urocanic acid
	Sucrose		2-Hydroxybutyric acid- <i>d</i> ₃
	Tagatose		4-Hydroxybenzoic acid- ¹³ C ₆
Threitol	Aspartic acid- <i>d</i> ₃		
Threonic acid	Citric acid- <i>d</i> ₄		
Trehalose	Cystamine- <i>d</i> ₈		
Xylitol	Dihydroxyacetone- ¹³ C ₃		
Xylose	Dopa- ¹³ C ₆		
その他 糖リン酸	2,3-Bisphosphoglyceric acid		Fumaric acid- ¹³ C ₄
	Fructose 1-phosphate		Glutamic acid- ¹³ C ₅
	beta-Glycerophosphate		Isoleucine- <i>d</i> ₁₀
	alpha-Glycerophosphate		Kynurenine- <i>d</i> ₆
	Inositol phosphate		Lactic acid- ¹³ C ₃
	Mannose 6-phosphate		Lauric acid- <i>d</i> ₃
Trehalose 6-phosphate	Malic acid- ¹³ C ₄		
その他物質	1-Hexadecanol		Ornithine- <i>d</i> ₇
	2-Hydroxybutyric acid		Oxalic acid- ¹³ C ₂
	Allantoin		Ribose- ¹³ C ₅
	Ascorbic acid		Sarcosine- <i>d</i> ₃
	Batyl alcohol		Taurine- ¹³ C ₂
	Biotin	Tryptophan- ¹³ C ₁₁	
	Catechol	Tyrosine- ¹³ C ₆	
	Cholecalciferol	Valine- <i>d</i> ₈	
		安定同位体	