

Azacitidine 400mg All Data.TXT

GastroPlus(TM) 5.2.0 4/7/2022 2:45:38 PM

Drug Name: Azacitidine 400 mg
Dose 400
Dosage Form IR: Tablet
Subsequent Dose 0
Subsequent Dose Interval 0

Calculated Particle Size Distribution

Built-in Solubility-pH Model

Pe_{eff}: 0.51

Stomach transit time: 0.25 h
Small intestine transit time: 3.2088 h
Colon transit time: 12.57225 h

Stomach volume: 50 mL
Small intestine length: 306.14 cm
Small intestine radius: 1 cm
Colon volume: 1200 mL

Q_h: 1.5 mL/min

Opt logD Model

C1Alpha: 0.18148
C2Alpha: 1.0944
C3Alpha: 0.0734
C4Alpha: 0.31836

ASF's:	Stom	Duod	J1	J2	I1	I2	I3	I4	Colon
	0.	1.304	1.376	1.545	1.76	2.035	2.421	0.016	0.023

Permeabilities:	Stom	Duod	J1	J2	I1	I2	I3	I4
Colon	0.	0.51	0.51	0.51	0.51	0.51	0.51	0.51

pH's:	Stom	Duod	J1	J2	I1	I2	I3	I4	Colon
	1.3	6.	6.2	6.4	6.6	6.9	7.4	6.4	6.8

Solubilities:	Stom	Duod	J1	J2	I1	I2	I3	I4
Colon	2.81E+01	2.31E+00	2.31E+00	2.31E+00	2.31E+00	2.31E+00	2.30E+00	2.30E+00
	2.30E+00	2.30E+00	2.31E+00	2.30E+00				

Pharmacokinetic parameters:

FPE = 0
Clearance = 183.7709

Azacitidine 400mg All Data.TXT

8.812E-5	6.982E-6	3.891E-7	1.915E-9	3.391E+1
0.E+0	2.784E+0	6.56E-1	3.287E-2	1.631E-3
-4.627E-6	-1.347E-8	-3.387E-8	1.029E-2	9.266E-2
3.475E+0	8.686E-1	0.E+0	2.631E-1	4.068E-10
2.396E-1	1.6E-1	3.374E-2	2.177E-1	0.e+0
1.872e+0	5.195e-1	2.813e-2	1.789e-3	3.851e-4
2.751e-4	9.106e-6	1.349e-5	1.662E+0	0.E+0
2.4E-1	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	1.435E-7	0.E+0	1.435E-7
1.333E-2	4.056E-3	0.E+0	4.056E-3	2.733E-4
1.326E+2	1.281E+2	7.616E+1	7.187E+0	6.054E-1
5.017E-2	4.637E-3	5.981E-4	4.777E-6	1.11E-8
3.475E+1	1.03E+1	3.297E+0	2.088E-1	1.298E-2
9.454E-5	8.049E-6	5.23E-8	4.857E+1	0.E+0
1.339E-1	1.002E-2	7.307E-4	2.192E-5	-3.391E-8
-1.896E-7	1.241E-2	1.117E-1	6.774E+0	1.693E+0
0.E+0	6.953E-1	1.11E-8	3.947E-1	7.701E-1
6.807E-2	3.941E-1	0.e+0	2.643e+0	1.232e+0
1.047e-1	9.372e-3	1.639e-3	9.142e-4	3.124e-5
4.612e-5	5.726E+0	0.E+0		
3.2E-1	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-2.402E-7	0.E+0	-2.402E-7
2.672E-3	8.935E-4	0.E+0	8.935E-4	6.16E-5
9.17E+1	1.185E+2	1.024E+2	1.327E+1	1.506E+0
2.005E-2	3.541E-3	3.761E-5	1.174E-7	4.724E+2
4.014E+1	1.478E+1	6.403E+0	5.432E-1	4.497E-2
3.742E-3	5.641E-4	6.524E-5	5.531E-7	6.192E+1
0.E+0	6.811E+0	3.337E+0	3.418E-1	3.424E-2
2.928E-4	1.82E-7	-5.823E-7	1.353E-2	1.218E-1
2.632E+0	0.E+0	1.306E+0	1.174E-7	5.843E-1
3.2E-1	1.008E-1	5.436E-1	0.e+0	2.961e+0
2.062e+0	2.441e-1	2.862e-2	4.83e-3	2.063e-3
9.988e-5	1.251E+1	0.E+0		6.815e-5
4.E-1	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-2.162E-8	-7.147E-26	-2.162E-8
7.515E-25	4.626E-4	1.856E-4	1.326E-25	1.856E-4
1.359E-5	6.766E-4	6.343E+1	1.028E+2	1.215E+2
2.025E+1	2.9E+0	3.982E-1	5.908E-2	1.339E-2
7.147E-7	4.887E+2	4.387E+1	1.878E+1	1.029E+1
1.096E+0	1.131E-1	1.166E-2	2.151E-3	3.168E-4
3.368E-6	7.417E+1	0.E+0	8.48E+0	5.255E+0
8.5E-2	1.075E-2	1.364E-3	1.612E-6	-1.302E-6
1.264E-1	1.451E+1	3.627E+0	0.E+0	2.05E+0
7.466E-1	2.519E+0	4.E-1	1.288E-1	6.571E-1
0.e+0	2.932e+0	2.856e+0	4.415e-1	6.48e-2
4.04e-3	1.19e-4	1.719e-4	2.172E+1	0.E+0
4.8E-1	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	3.644E-8	-5.554E-26	3.644E-8
4.091E-25	6.634E-5	3.415E-5	-2.749E-26	3.415E-5
2.788E-6	1.064E-4	4.387E+1	8.563E+1	1.333E+2

Azacitidine 400mg All Data.TXT

2.741E+1	4.752E+0	7.805E-1	1.366E-1	3.817E-2			
6.281E-4	3.046E-6	5.041E+2	4.645E+1	2.218E+1			
1.472E+1	1.883E+0	2.326E-1	2.849E-2	6.182E-3			
1.113E-3	1.436E-5	8.55E+1 0.E+0	9.852E+0	7.377E+0			
1.146E+0	1.726E-1	2.627E-2	4.245E-3	6.702E-6			
-2.376E-6	1.417E-2	1.275E-1	1.858E+1	4.644E+0			
0.E+0	2.883E+0	3.046E-6	8.786E-1	3.541E+0			
4.8E-1	1.515E-1	7.373E-1	0.e+0	2.689e+0	3.521e+0		
6.812e-1	1.211e-1	2.389e-2	7.459e-3	1.839e-4			
2.585e-4	3.297E+1	0.E+0					
5.6E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-7.543E-9	8.265E-26	-7.543E-9	7.844E-6		
3.833E-23	7.844E-6	5.454E-6	1.84E-25	5.454E-6			
5.137E-7	1.437E-5	3.034E+1	6.937E+1	1.387E+2			
3.419E+1	6.971E+0	1.331E+0	2.671E-1	8.951E-2			
1.754E-3	1.013E-5	5.187E+2	4.824E+1	2.497E+1			
1.944E+1	2.903E+0	4.165E-1	5.892E-2	1.463E-2			
3.13E-3	4.775E-5	9.604E+1	0.E+0	1.095E+1	9.587E+0		
1.742E+0	3.056E-1	5.415E-2	1.041E-2	2.022E-5			
-3.718E-6	1.406E-2	1.265E-1	2.265E+1	5.662E+0			
0.E+0	3.774E+0	1.013E-5	9.826E-1	4.557E+0			
5.6E-1	1.695E-1	7.905E-1	0.e+0	2.343e+0	4.01e+0		
9.428e-1	1.981e-1	4.365e-2	1.319e-2	2.65e-4	3.562e-4		
4.584E+1	0.E+0						
6.4E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-3.604E-8	-5.409E-24	-3.604E-8	8.257E-7		
2.345E-19	8.257E-7	7.721E-7	1.826E-22	7.721E-7			
8.496E-8	1.742E-6	2.099E+1	5.506E+1	1.391E+2			
4.018E+1	9.434E+0	2.05E+0	4.625E-1	1.821E-1	4.167E-3		
2.808E-5	5.325E+2	4.947E+1	2.721E+1	2.425E+1			
4.134E+0	6.745E-1	1.079E-1	3.002E-2	7.481E-3			
1.324E-4	1.059E+2	0.E+0	1.181E+1	1.18E+1	2.449E+0		
4.894E-1	9.865E-2	2.174E-2	5.005E-5	-5.063E-6			
1.38E-2	1.242E-1	2.666E+1	6.665E+0	0.E+0	4.695E+0		
2.808E-5	1.063E+0	5.517E+0	6.4E-1	1.833E-1			
8.23E-1	0.e+0	1.968e+0	4.317e+0	1.206e+0	2.94e-1		
7.231e-2	2.224e-2	3.68e-4	4.62e-4	5.997E+1	0.E+0		
7.2E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-2.081E-9	-1.343E-25	-2.081E-9	9.367E-8		
3.158E-19	9.367E-8	1.029E-7	1.459E-21	1.029E-7			
1.292E-8	2.22E-7	1.452E+1	4.303E+1	1.356E+2	4.517E+1		
1.201E+1	2.922E+0	7.296E-1	3.323E-1	8.746E-3			
6.774E-5	5.457E+2	5.032E+1	2.898E+1	2.901E+1			
5.547E+0	1.012E+0	1.802E-1	5.532E-2	1.58E-2	3.192E-4		
1.151E+2	0.E+0	1.247E+1	1.394E+1	3.247E+0	7.27E-1		
1.637E-1	4.037E-2	1.077E-4	-5.884E-6	1.345E-2			
1.21E-1	3.059E+1	7.646E+0	0.E+0	5.628E+0	6.774E-5		
1.123E+0	6.392E+0	7.2E-1	1.936E-1	8.399E-1			
0.e+0	1.61e+0	4.457e+0	1.455e+0	4.049e-1	1.106e-1		
3.559e-2	5.022e-4	5.737e-4	7.507E+1	0.E+0			

Azacitidine 400mg All Data.TXT

8.E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	7.607E-9		7.044E-25		7.607E-9		1.983E-8	
-1.222E-17		1.983E-8		1.604E-8		-2.208E-20		1.604E-8	
2.004E-9		4.777E-8		1.004E+1		3.322E+1		1.294E+2	
4.903E+1		1.457E+1		3.921E+0		1.07E+0	5.57E-1	1.665E-2	
1.464E-4		5.582E+2		5.092E+1		3.035E+1		3.359E+1	
7.106E+0		1.431E+0		2.8E-1	9.366E-2		3.026E-2		6.901E-4
1.238E+2		0.E+0	1.297E+1		1.597E+1		4.116E+0		1.018E+0
2.526E-1		6.849E-2		2.087E-4		-5.306E-6		1.304E-2	
1.174E-1		3.44E+1	8.6E+0	0.E+0	6.56E+0	1.464E-4		1.166E+0	
7.164E+0			8.E-1	2.011E-1		8.453E-1			0.e+0
1.289e+0		4.457e+0		1.676e+0		5.259e-1		1.586e-1	
5.404e-2		6.812e-4		6.902e-4		9.087E+1		0.E+0	
8.8E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	5.886E-9		5.007E-24		5.886E-9		2.781E-9	
-1.928E-16		2.781E-9		3.365E-9		-1.799E-19		3.365E-9	
4.048E-10		1.289E-8		6.946E+0		2.539E+1		1.214E+2	
5.176E+1		1.702E+1		5.01E+0	1.48E+0	8.716E-1		2.931E-2	
2.897E-4		5.701E+2		5.132E+1		3.14E+1	3.793E+1		8.774E+0
1.93E+0	4.103E-1		1.481E-1		5.36E-2	1.365E-3		1.32E+2	0.E+0
1.336E+1		1.787E+1		5.033E+0		1.36E+0	3.676E-1		1.082E-1
3.722E-4		-2.021E-6		1.261E-2		1.134E-1		3.81E+1	9.524E+0
0.E+0	7.481E+0		2.897E-4		1.195E+0		7.829E+0		
8.8E-1	2.061E-1		8.422E-1			0.e+0	1.016e+0		4.347e+0
1.86e+0	6.516e-1		2.155e-1		7.813e-2		9.222e-4		8.108e-4
1.072E+2		0.E+0							
9.6E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-3.64E-7		-3.196E-22		-3.64E-7		1.188E-7	
3.231E-14		1.188E-7		1.151E-8		4.776E-17		1.151E-8	
2.154E-10		-2.333E-7		4.804E+0		1.924E+1		1.125E+2	
5.342E+1		1.925E+1		6.15E+0	1.949E+0		1.289E+0		4.837E-2
5.33E-4	5.813E+2		5.161E+1		3.22E+1	4.198E+1		1.051E+1	
2.502E+0		5.733E-1		2.214E-1		8.9E-2	2.512E-3		1.397E+2
0.E+0	1.364E+1		1.962E+1		5.979E+0		1.748E+0		5.1E-1
1.614E-1		6.207E-4		5.793E-6		1.215E-2		1.093E-1	
4.166E+1		1.042E+1		0.E+0	8.385E+0		5.33E-4	1.213E+0	
8.385E+0			9.6E-1	2.092E-1		8.328E-1			0.e+0
7.9e-1	4.157e+0		2.005e+0		7.767e-1		2.797e-1		1.08e-1
1.246e-3		9.359e-4		1.238E+2		0.E+0			
1.04E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-2.647E-8		6.762E-28		-2.647E-8		8.513E-8	
5.793E-17		8.513E-8		2.435E-8		-1.498E-18		2.435E-8	
8.642E-10		8.477E-8		3.323E+0		1.449E+1		1.031E+2	
5.412E+1		2.122E+1		7.299E+0		2.466E+0		1.819E+0	
7.561E-2		9.226E-4		5.921E+2		5.18E+1	3.28E+1	4.57E+1	1.229E+1
3.14E+0	7.699E-1		3.16E-1	1.4E-1	4.348E-3		1.47E+2	0.E+0	1.386E+1
2.121E+1		6.935E+0		2.177E+0		6.802E-1		2.294E-1	
9.794E-4		2.052E-5		1.168E-2		1.051E-1		4.509E+1	
1.127E+1		0.E+0	9.267E+0		9.226E-4		1.221E+0		8.838E+0
	1.04E+0	2.106E-1		8.188E-1			0.e+0	6.08e-1	3.913e+0

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