

GastroPlus(TM) 5.2.0 4/7/2022 1:11:35 PM

Drug Name: Azacitidine 200 mg  
 Dose 200  
 Dosage Form IR: Tablet  
 Subsequent Dose 0  
 Subsequent Dose Interval 0

Calculated Particle Size Distribution

Built-in Solubility-pH Model

Pe<sub>eff</sub>: 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<sub>h</sub>: 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

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Vc/Vd = 0.0755  
 Subject weight = 76.8  
 K12 = 27.8514  
 K21 = 3.2778  
 Fp = 99  
 Half life = 0.41  
 Pred CMax = 1.05E-1 Pred TMax = 1.12E+0 Pred AUC = 2.65E+2

Total simulation time: 24 h

Time(h)	StUnRel	DUnRel	J1UnRel	J2UnRel	I1UnRel	I2UnRel	I3UnRel	I4UnRel	CUnRel	
ExUnRel	Total	Unrel. (mg)	SUndiss	DUndiss	J1Undiss	J2Undiss	I1Undiss	I2Undiss	I3Undiss	
I1Undiss	I2Undiss	I3Undiss	I4Undiss	CUndiss	ExUndiss	Total. Undiss. (mg)	SDiss	DDiss	J1Diss	
I2Diss	I3Diss	I4Diss	CDiss	ExDiss	Total. Diss. (mg)	SDegrad	DDegrad	J1Degrad	J2Degrad	
I1Degrad	I2Degrad	I3Degrad	I4Degrad	CDegrad	TotalDegrad	SAbs	DAbs	J1Abs	J2Abs	
I1Abs	I2Abs	I3Abs	I4Abs	CAbs	Abs Rate	Net Ka	Total Absorbed	Fa %	First Pass %	
F %	TotalExcreted	Central	Periph	Time (h)	Cp (mg/L)	CLiver	(mg/L)	StomEnt (mg)	DuodEnt (mg)	
Ile1Ent (mg)	Ile2Ent (mg)	Ile3Ent (mg)	Ile4Ent (mg)	ColnEnt (mg)	AUC	(ng-h/mL)	GB Amount (mg)			
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
0.E+0	0.E+0	2.00E+2	0.E+0	2.00E+2	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	2.00E+2	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	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	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	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	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	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	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	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
8.E-2	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	0.E+0	9.777E-8		0.E+0	9.777E-8		1.419E-1		0.E+0	
1.419E-1		4.02E-2	0.E+0	4.02E-2	1.638E-3		1.854E-1		1.385E+2	
4.428E+1		7.44E+0	2.197E-1		6.021E-3		1.667E-4		5.429E-6	
2.215E-7		1.162E-9		1.025E-12		2.091E+2		7.848E+0		
8.862E-1		9.08E-2	1.887E-3		3.91E-5	8.327E-7		3.42E-8	9.344E-10	
4.83E-12		8.827E+0		0.E+0	4.492E-1		5.133E-2		1.265E-3	
3.114E-5		5.641E-7		-1.737E-7		-2.919E-10		-6.238E-10		
3.263E-3		5.878E-2		5.019E-1		2.509E-1		0.E+0	4.185E-2	
1.034E-12		1.97E-2	1.066E-2			8.E-2	3.397E-3		2.835E-2	
	0.e+0	3.711e-1		4.583e-2		1.182e-3		4.535e-5		
1.49e-5	1.232e-5		3.822e-7		5.677e-7		6.944E-2		0.E+0	
1.6E-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	0.E+0	1.46E-8	0.E+0	1.46E-8	1.307E-2		0.E+0	1.307E-2		
6.046E-3		0.E+0	6.046E-3		4.545E-4		2.005E-2		9.583E+1	
6.155E+1		2.245E+1		1.37E+0	7.611E-2		4.214E-3		2.658E-4	
2.228E-5		1.283E-7		2.032E-10		2.187E+2		1.348E+1		
2.856E+0		5.984E-1		2.51E-2	1.041E-3		4.406E-5		3.491E-6	
1.946E-7		9.577E-10		1.696E+1		0.E+0	1.393E+0		3.281E-1	

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1.644E-2	8.154E-4	3.688E-5	-2.321E-6	-6.748E-9					
-1.696E-8	5.147E-3	9.266E-2	1.739E+0	8.693E-1					
0.E+0	2.634E-1	2.035E-10	9.792E-2	1.199E-1					
1.6E-1	1.689E-2	1.089E-1	0.e+0	9.367e-1	2.598e-1				
1.407e-2	8.948e-4	1.927e-4	1.377e-4	4.559e-6					
6.756e-6	8.321E-1	0.E+0							
2.4E-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
0.E+0	0.E+0	-2.553E-9	0.E+0	-2.553E-9	1.332E-3	0.E+0			
1.332E-3	7.592E-4	0.E+0	7.592E-4	7.528E-5	2.249E-3				
6.628E+1	6.403E+1	3.808E+1	3.593E+0	3.027E-1					
2.508E-2	2.318E-3	2.99E-4	2.389E-6	5.549E-9	2.277E+2				
1.738E+1	5.153E+0	1.649E+0	1.044E-1	6.491E-3					
4.086E-4	4.727E-5	4.025E-6	2.615E-8	2.429E+1					
0.E+0	2.436E+0	8.799E-1	6.693E-2	5.009E-3	3.653E-4				
1.093E-5	-1.7E-8	-9.49E-8	6.204E-3	1.117E-1	3.388E+0				
1.694E+0	0.E+0	6.958E-1	5.55E-9	1.974E-1	3.853E-1				
2.4E-1	3.405E-2	1.971E-1	0.e+0	1.322e+0	6.163e-1				
5.235e-2	4.686e-3	8.196e-4	4.574e-4	1.563e-5					
2.308e-5	2.865E+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	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	2.25E-8	0.E+0	2.25E-8	1.333E-4	0.E+0	1.333E-4		
9.016E-5	0.E+0	9.016E-5	1.046E-5	2.458E-4	4.585E+1				
5.923E+1	5.121E+1	6.635E+0	7.529E-1	8.297E-2					
1.003E-2	1.77E-3	1.88E-5	5.868E-8	2.362E+2	2.008E+1				
7.392E+0	3.201E+0	2.716E-1	2.249E-2	1.871E-3					
2.82E-4	3.262E-5	2.766E-7	3.097E+1	0.E+0	3.407E+0				
1.669E+0	1.709E-1	1.712E-2	1.713E-3	1.463E-4					
9.089E-8	-2.914E-7	6.765E-3	1.218E-1	5.265E+0					
2.632E+0	0.E+0	1.307E+0	5.868E-8	2.922E-1	7.822E-1				
	3.2E-1	5.04E-2	2.718E-1	0.e+0	1.481e+0	1.031e+0			
1.221e-1	1.431e-2	2.415e-3	1.032e-3	3.409e-5					
4.996e-5	6.256E+0	0.E+0							
4.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	1.795E-7	0.E+0	1.795E-7	1.241E-5	0.E+0			
1.241E-5	1.02E-5	0.E+0	1.02E-5	1.332E-6	2.565E-5	3.171E+1			
5.139E+1	6.074E+1	1.012E+1	1.45E+0	1.991E-1	2.954E-2				
6.695E-3	9.012E-5	3.573E-7	2.443E+2	2.194E+1					
9.393E+0	5.147E+0	5.478E-1	5.655E-2	5.828E-3					
1.075E-3	1.584E-4	1.684E-6	3.709E+1	0.E+0	4.241E+0				
2.627E+0	3.387E-1	4.25E-2	5.375E-3	6.82E-4	8.055E-7				
-6.515E-7	7.02E-3	1.264E-1	7.256E+0	3.628E+0	0.E+0				
2.05E+0	3.573E-7	3.733E-1	1.26E+0	4.E-1	6.439E-2				
3.285E-1		0.e+0	1.466e+0	1.428e+0	2.208e-1				
3.24e-2	5.796e-3	2.02e-3	5.954e-5	8.6e-5	1.086E+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	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	1.509E-7	0.E+0	1.509E-7	1.058E-6	0.E+0			
1.058E-6	1.091E-6	0.E+0	1.091E-6	1.596E-7	2.647E-6				
2.193E+1	4.281E+1	6.665E+1	1.37E+1	2.376E+0	3.902E-1				
6.828E-2	1.908E-2	3.14E-4	1.523E-6	2.52E+2	2.323E+1				
1.109E+1	7.359E+0	9.416E-1	1.163E-1	1.424E-2					

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3.091E-3	5.566E-4	7.178E-6	4.276E+1	0.E+0	4.927E+0
3.688E+0	5.732E-1	8.631E-2	1.314E-2	2.122E-3	
3.351E-6	-1.189E-6	7.083E-3	1.275E-1	9.29E+0	4.645E+0
0.E+0	2.884E+0	1.523E-6	4.393E-1	1.771E+0	
4.8E-1	7.576E-2	3.686E-1	0.e+0	1.344e+0	1.76e+0
3.406e-1	6.055e-2	1.195e-2	3.73e-3	9.197e-5	1.293e-4
1.649E+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	-4.377E-9	0.E+0	-4.377E-9	8.926E-8
8.926E-8	1.105E-7	0.E+0	1.105E-7	1.811E-8	2.351E-7
1.517E+1	3.468E+1	6.937E+1	1.709E+1	3.485E+0	
6.653E-1	1.336E-1	4.475E-2	8.771E-4	5.065E-6	
2.594E+2	2.412E+1	1.249E+1	9.718E+0	1.451E+0	
2.082E-1	2.946E-2	7.312E-3	1.565E-3	2.387E-5	
4.803E+1	0.E+0	5.475E+0	4.794E+0	8.709E-1	1.528E-1
2.707E-2	5.206E-3	1.011E-5	-1.86E-6	7.028E-3	
1.265E-1	1.132E+1	5.662E+0	0.E+0	3.774E+0	5.065E-6
4.913E-1	2.279E+0		5.6E-1	8.473E-2	3.952E-1
0.e+0	1.171e+0	2.005e+0	4.714e-1	9.906e-2	2.182e-2
6.595e-3	1.325e-4	1.781e-4	2.292E+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	4.36E-7	0.E+0	4.36E-7	1.236E-8
1.157E-8	0.E+0	1.157E-8	1.977E-9	4.643E-7	1.049E+1
2.753E+1	6.954E+1	2.009E+1	4.717E+0	1.025E+0	
2.312E-1	9.103E-2	2.083E-3	1.404E-5	2.663E+2	
2.474E+1	1.361E+1	1.213E+1	2.067E+0	3.372E-1	
5.396E-2	1.501E-2	3.74E-3	6.617E-5	5.295E+1	0.E+0
5.904E+0	5.898E+0	1.224E+0	2.447E-1	4.932E-2	
1.087E-2	2.502E-5	-2.532E-6	6.899E-3	1.242E-1	
1.333E+1	6.666E+0	0.E+0	4.695E+0	1.404E-5	5.313E-1
2.759E+0		6.4E-1	9.163E-2	4.115E-1	0.e+0
9.842e-1	2.159e+0	6.031e-1	1.47e-1	3.615e-2	1.112e-2
1.84e-4	2.31e-4	2.999E+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	-6.511E-9	1.56E-26	-6.511E-9	-1.607E-8
-8.43E-26	-1.607E-8	1.824E-9	2.215E-27	1.824E-9	
2.662E-10	-2.017E-8	7.259E+0	2.151E+1	6.779E+1	
2.258E+1	6.005E+0	1.461E+0	3.648E-1	1.661E-1	
4.373E-3	3.387E-5	2.729E+2	2.517E+1	1.449E+1	
1.45E+1	2.773E+0	5.061E-1	9.011E-2	2.766E-2	7.898E-3
1.596E-4	5.756E+1	0.E+0	6.235E+0	6.97E+0	1.624E+0
3.635E-1	8.185E-2	2.018E-2	5.385E-5	-2.943E-6	
6.724E-3	1.21E-1	1.529E+1	7.647E+0	0.E+0	5.628E+0
3.387E-5	5.613E-1	3.196E+0		7.2E-1	9.68E-2
	0.e+0	8.047e-1	2.229e+0	7.274e-1	2.025e-1
5.532e-2	1.779e-2	2.511e-4	2.869e-4	3.754E+1	
0.E+0					
8.E-1	0.E+0	0.E+0	0.E+0	0.E+0	0.E+0
0.E+0	0.E+0	-1.791E-9	2.25E-25	-1.791E-9	-8.33E-10
-1.256E-24	-8.33E-10	5.052E-10	-2.092E-26	5.052E-10	

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4.625E-11	-2.018E-9	5.021E+0	1.661E+1	6.469E+1					
2.451E+1	7.286E+0	1.96E+0	5.35E-1	2.785E-1	8.326E-3				
7.321E-5	2.791E+2	2.546E+1	1.518E+1	1.68E+1	3.553E+0				
7.156E-1	1.4E-1	4.683E-2	1.513E-2	3.45E-4	6.19E+1	0.E+0			
6.487E+0	7.986E+0	2.058E+0	5.09E-1	1.263E-1	3.424E-2				
1.043E-4	-2.655E-6	6.521E-3	1.174E-1	1.72E+1	8.601E+0				
0.E+0	6.56E+0	7.321E-5	5.829E-1	3.582E+0	8.E-1				
1.005E-1	4.226E-1	0.e+0	6.445e-1	2.228e+0					
8.377e-1	2.63e-1	7.931e-2	2.702e-2	3.406e-4	3.451e-4				
4.544E+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	2.235E-10	6.244E-26	2.235E-10	9.176E-10				
-2.947E-25	9.176E-10	2.933E-10	-9.98E-27	2.933E-10					
1.773E-11	1.473E-9	3.473E+0	1.269E+1	6.072E+1					
2.588E+1	8.508E+0	2.505E+0	7.397E-1	4.358E-1					
1.466E-2	1.449E-4	2.85E+2	2.566E+1	1.57E+1	1.897E+1				
4.387E+0	9.647E-1	2.051E-1	7.404E-2	2.68E-2	6.827E-4				
6.599E+1	0.E+0	6.679E+0	8.935E+0	2.516E+0	6.799E-1				
1.838E-1	5.41E-2	1.861E-4	-1.012E-6	6.302E-3	1.134E-1				
1.905E+1	9.524E+0	0.E+0	7.482E+0	1.449E-4	5.976E-1				
3.914E+0	8.8E-1	1.031E-1	4.211E-1	0.e+0					
5.078e-1	2.174e+0	9.301e-1	3.258e-1	1.077e-1					
3.906e-2	4.611e-4	4.054e-4	5.359E+1	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	-1.691E-9	8.488E-27	-1.691E-9	8.969E-10				
-3.677E-24	8.969E-10	2.187E-10	-9.221E-26	2.187E-10					
1.774E-12	-5.701E-10	2.402E+0	9.621E+0	5.625E+1					
2.671E+1	9.625E+0	3.075E+0	9.745E-1	6.445E-1					
2.418E-2	2.665E-4	2.907E+2	2.581E+1	1.61E+1	2.099E+1				
5.257E+0	1.251E+0	2.866E-1	1.107E-1	4.449E-2					
1.256E-3	6.985E+1	0.E+0	6.822E+0	9.809E+0	2.989E+0				
8.74E-1	2.55E-1	8.068E-2	3.103E-4	2.894E-6	6.074E-3				
1.093E-1	2.083E+1	1.042E+1	0.E+0	8.386E+0	2.665E-4				
6.065E-1	4.193E+0	9.6E-1	1.046E-1	4.164E-1					
0.e+0	3.95e-1	2.079e+0	1.003e+0	3.883e-1	1.399e-1				
5.4e-2	6.228e-4	4.68e-4	6.19E+1	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	-1.341E-8	1.341E-24	-1.341E-8	2.943E-9				
-7.285E-22	2.943E-9	3.206E-10	-1.089E-23	3.206E-10					
9.127E-12	-1.012E-8	1.661E+0	7.242E+0	5.156E+1					
2.706E+1	1.061E+1	3.649E+0	1.233E+0	9.094E-1					
3.78E-2	4.613E-4	2.96E+2	2.59E+1	1.64E+1	2.285E+1	6.147E+0			
1.57E+0	3.849E-1	1.58E-1	7.001E-2	2.174E-3	7.349E+1				
0.E+0	6.93E+0	1.061E+1	3.467E+0	1.088E+0	3.401E-1				
1.147E-1	4.896E-4	1.026E-5	5.841E-3	1.051E-1					
2.255E+1	1.127E+1	0.E+0	9.268E+0	4.613E-4	6.105E-1				
4.419E+0	1.04E+0	1.053E-1	4.094E-1	0.e+0					
3.04e-1	1.957e+0	1.054e+0	4.482e-1	1.747e-1	7.172e-2				
8.37e-4	5.333e-4	7.03E+1	0.E+0						
1.12E+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

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