# BIOLOGICAL IMPACT OF IBERDOMIDE IN PATIENTS WITH ACTIVE SYSTEMIC LUPUS ERYTHEMATOSUS

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## **Supplementary Methods**

#### Cut point determination

In this training dataset, the type I IFN module and the Ikaros type I IFN module (genes acting with IKZF1 as expression quantitative trait loci [eQTL]) had bimodal distributions, and the cut points were set at the antimode (i.e., the lowest point in the distribution curve between the two modes): type I IFN module -1.38 and Ikaros type I IFN module -0.76. The distributions of *IKZF1*, *IKZF3*, the B cell module and T cell exhaustion module were unimodal, and the cut points were set at the median (*IKZF1*, -0.58; *IKZF3*, -0.49; B cell module, -0.3; T cell exhaustion module, -0.51).

## Exploratory analyses

The bootstrapping and aggregating of thresholds from trees (BATTing) procedure is designed to provide a robust cut point estimate for the single marker being evaluated (e.g., type I IFN). The original data (placebo + 0.45 mg dose groups, with total N from these groups noted as N<sub>total</sub>) is bootstrap sampled (randomly sampled with size N<sub>total</sub>, with replacement), and the optimal cut point (C) forms the "tree" by partitioning the data into groups above and below C. C is equivalent to the minimum *P* value for interaction of placebo and iberdomide 0.45 mg SRI-4 response rates in a logistic regression setting, for groups above and below C in the bootstrapped sample. The bootstrapping step is repeated B times (B=1000), and the B values of C are aggregated, with the median of these values determining the optimal cut point. Due to bootstrapping, the threshold is robust to small perturbations, or outliers, in the data and not prone to overfitting. The other dose groups (0.15 and 0.30 mg) are then tested using the optimal cut point, for validation of the result. This analysis identified a higher type I IFN cutoff point of 0.615, hereafter referred to as IFN super-high.

## Pharmacokinetics

Sparse pharmacokinetic data were pooled with pharmacokinetic data collected previously from healthy subjects and patients with SLE and analysed using population methods to determine individual pharmacokinetic exposure parameters and explore the effect of covariates on exposure.

### Supplementary Table 1. Baseline mRNA and DNA expression by treatment group (ITT

population)

		Iberdomide		
	Placebo	0.15 mg QD	0.3 mg QD	0.45 mg QD
Patients, n (%)	(n=83)	(n=42)	(n=82)	(n=81)
Ikaros (IKZF1) high	56 (68)	28 (67)	53 (65)	64 (79)
Aiolos ( <i>IKZF3</i> ) high	27 (33)	14 (33)	32 (39)	36 (44)
Type I IFN module high	48 (58)	25 (60)	49 (60)	57 (70)
Ikaros IFN module high	49 (59)	30 (71)	49 (60)	62 (77)
T cell exhaustion module low	60 (72)	29 (69)	65 (79)	66 (82)
B cell module high	46 (55)	24 (57)	48 (59)	54 (67)

The cutoffs were set a priori based on an independent training data set. The type I IFN module and the Ikaros type I IFN (eQTL) module had bimodal distributions and the cutoffs were set at the antimode: type I IFN module [*IFI27, IFI44, IFI44L, RSAD2*]=, -1.38, and Ikaros type I IFN module [*HERC5, IFI6, IFIT1, MX1, TNFRSF21*]=-0.76. The distributions of Ikaros, Aiolos and B cell modules were unimodal, and the cutoffs were set at the median: Ikaros [*IKZF1*]=-0.58; Aiolos [*IKZF3*]=-0.49; B cell module [*CD19, BACH2, CD22*]=-0.3; and T cell exhaustion [*CTLA4, IL7R, LAG3, PDCD1, ABCE1*] =-0.51.

IFN, interferon; ITT, intent-to-treat; QD, once daily.

# Supplementary Table 2. Numeric data for Figure 1: Time course of change from

baseline during iberdomide treatment in selected blood cells

Adjusted mean (SE)	Week 0	Week 4	Week 12	Week 24
CD19 B cells (10 <sup>9</sup> /L)				
Placebo	180.103	163.211 (8.715)	166.824 (7.430)	166.903 (10.817)
Iberdomide 0.15 mg QD	188.639	136.145 (10.893)	134.922 (10.042)	119.444 (11.039)
Iberdomide 0.3 mg QD	197.616	113.232 (8.174)	102.133 (7.581)	96.007 (8.574)
Iberdomide 0.45 mg QD	211.972	90.019 (8.488)	71.137 (7.697)	60.083 (9.124)
CD20 B cells (10 <sup>9</sup> /L)				
Placebo	30.492	21.640 (1.826)	21.060 (1.488)	18.210 (1.926)
lberdomide 0.15 mg QD	31.674	16.127 (2.101)	15.098 (1.759)	12.212 (1.819)
Iberdomide 0.3 mg QD	38.912	11.782 (1.553)	9.653 (1.267)	8.940 (1.381)
Iberdomide 0.45 mg QD	39.914	7.217 (1.496)	5.056 (1.303)	4.038 (1.430)
Total CD3 T cells (10 <sup>9</sup> /L)				
Placebo	1086.059	1145.725 (38.715)	1134.861 (44.756)	1133.939 (51.177)
Iberdomide 0.15 mg QD	1237.639	1128.985 (54.688)	1324.183 (66.503)	1256.970 (63.590)
Iberdomide 0.3 mg QD	1151.014	1134.530 (38.814)	1291.049 (47.814)	1236.539 (49.437)
Iberdomide 0.45 mg QD	1250.183	1031.406 (40.670)	1148.483 (47.101)	1112.613 (47.559)

CD4 helper T cells (10 <sup>9</sup> /L)				
Placebo	681 588	701.100	691.668	692.040
Tacebo	001.000	(23.746)	(26.724)	(31.989)
lberdomide 0 15 mg OD	710 222	637.010	747.584	712.739
	110.222	(33.878)	(39.111)	(38.355)
lberdomide 0.3 mg OD	695 904	656.170	732.973	715.382
iberdofnide 0.5 mg QD	000.004	(23.997)	(28.278)	(29.039)
lberdomide 0.45 mg OD	787 465	598.295	630.336	618.636
	707.400	(24.476)	(28.022)	(28.474)
CD8 cytotoxic T cells (10 <sup>9</sup> /L)				
Plaasha	200 012	422.735	424.266	413.080
Placebo	380.912 (17.031)	(20.412)	(22.862)	
Iberdomide 0 15 mg OD	100 000	445.980	524.817	498.460
	490.020 (2	(24.328)	(30.733)	(29.554)
Iberdemide 0.2 mg OD	435.137	439.529	527.051	484.170
iberdoffilde 0.5 frig QD		(17.341)	(22.918)	(23.982)
lbordomido 0.45 mg OD	115 352	405.957	472.78	463.766
	440.002	(17.421)	(22.190)	(24.543)
NK cells (10 <sup>9</sup> /L)				
Diasaha	154 010	152.525	154.705	150.036
Placebo	154.912	(7.752)	(8.849)	(9.796)
lbordomido 0 15 ma OD		144.369	163.395	162.187
iberdomide 0.15 mg QD	1/5./22	(10.529)	(12.442)	(13.197)
Ibordomido 0.2 ma OD	162.006	154.067	171.117	161.796
	103.090	(7.696)	(9.682)	(10.747)
Ibordomido 0 45 ma OD	149 160	138.913	145.904	147.980
	148.169	(7.571)	(8.928)	(9.531)

CD268 B cells (10 <sup>9</sup> /L)				
Placebo	178.196	161.419 (9.091)	163.784 (7.711)	163.015 (10.194)
lberdomide 0.15 mg QD	181.091	133.339 (11.168)	132.239 (9.999)	117.577 (10.836)
lberdomide 0.3 mg QD	191.328	112.763 (8.266)	103.979 (7.698)	96.794 (8.432)
lberdomide 0.45 mg QD	212.301	86.103 (8.919)	67.928 (7.891)	57.405 (9.135)
Plasma blasts (10 <sup>9</sup> /L)				
Placebo	0.645	0.681 (0.075)	0.827 (0.154)	0.629 (0.123)
lberdomide 0.15 mg QD	0.601	0.682 (0.093)	0.853 (0.179)	0.636 (0.116)
Iberdomide 0.3 mg QD	0.722	0.640 (0.069)	0.926 (0.143)	0.758 (0.127)
lberdomide 0.45 mg QD	0.664	0.595 (0.073)	1.043 (0.163)	0.707 (0.097)
Plasmacytoid DC (cells/µL)				
Placebo	2.975	2.525 (0.165)	2.567 (0.162)	2.719 (0.206)
lberdomide 0.15 mg QD	3.614	1.045 (0.214)	1.315 (0.206)	1.555 (0.229)
lberdomide 0.3 mg QD	3.007	1.116 (0.175)	1.030 (0.157)	1.012 (0.173)
Iberdomide 0.45 mg QD	3.000	1.323 (0.189)	1.011 (0.165)	0.866 (0.169)

Switched memory B cells (10 <sup>9</sup> /L)				
Placaba	21 210	25.191	25.173	22.080
Flacebo	31.319	(1.486)	(1.375)	(2.001)
lberdomide 0 15 mg OD	29 176	19.110	19.427	18.126
iberdomide 0.13 mg QD	23.470	(1.973)	(1.995)	(1.805)
lberdomide 0.3 mg OD	31 954	16.833	17.131	16.150
	01.004	(1.451)	(1.361)	(1.411)
lberdomide 0.45 mg OD	38 573	14.698	12.902	10.474
	00.070	(1.455)	(1.412)	(1.396)
Plasma cells (10 <sup>9</sup> /L)				
Placebo	7.606 7.243	7.243	4.603	6.744
Tacebo		(1.075)	(0.919)	(1.013)
lberdomide 0 15 mg OD	5 801	8.282	6.650	7.022
iberdomide 0.13 mg QD	5.001	(1.397)	(1.300)	(1.135)
lberdomide 0.3 mg OD	5.057	10.824	11.939	8.941
		(0.994)	(1.173)	(1.064)
lberdomide 0.45 mg OD	4 789	11.394	9.309	8.413
	1.700	(1.014)	(0.979)	(0.957)
Myeloid DC1 (cells/µL)				
Placebo	7 615	6.025	6.360	6.736
Tacebo	(0.365)	(0.365)	(0.437)	(0.523)
lberdomide 0 15 mg OD	9 650	4.330	5.630	5.020
iberdomide 0.13 mg QD	3.050	(0.502)	(0.589)	(0.701)
lberdomide 0.3 mg OD	7 071	4.818	5.605	5.721
	7.071	(0.342)	(0.451)	(0.527)
lberdomide 0.45 mg OD	8 549	3.837	3.830	4.532
10erdomide 0.43 mg QD 8.349	0.0+0	(0.346)	(0.392)	(0.460)

				<u> </u>
Regulatory I cells (%)				
Placebo	2,125	2.035	2.011	1.996
1.40000	21120	(0.099)	(0.113)	(0.125)
lberdomide 0 15 mg OD	1 845	2.484	2.672	2.762
	1.010	(0.138)	(0.159)	(0.168)
Iberdomide 0.3 mg OD	2 240	3.039	3.231	3.255
iberdomide 0.5 mg QD	2.240	(0.110)	(0.132)	(0.153)
Iberdomide 0.45 mg OD	2 173	3.293	3.674	3.900
	2.170	(0.102)	(0.117)	(0.132)
T follicular helper cells (%)				
Diasaha	0.010	3.760	3.788	4.150
Placebo	3.818	(0.162)	(0.184)	(0.229)
	4.049 4.145 (0.232	4.145	4.284	4.863
Iberdomide 0.15 mg QD		(0.232)	(0.254)	(0.304)
	4.276 (	4.368	4.911	5.200
iberdomide 0.3 mg QD		(0.164)	(0.197)	(0.234)
	3.896	4.305	4.683	5.189
iberdomide 0.45 mg QD		(0.161)	(0.187)	(0.227)
T helper 17 cells (%)				
	0 70 4	2.613	2.865	2.837
Placebo	2.764	(0.108)	(0.116)	(0.137)
		2.623	2.878	2.965
Iberdomide 0.15 mg QD	2.615	(0.157)	(0.164)	(0.181)
	0.4.44	2.781 <sup>´</sup>	2.938	2.874
iberdomide 0.3 mg QD	3.141	(0.111)	(0.126)	(0.143)
	0 705	2.596	2.819	2.962
Iberdomide 0.45 mg QD	2.725	(0.107)	(0.118)	(0.132)

BLyS, B lymphocyte stimulator; DC, dendritic cell; NK, natural killer; SE, standard error.

# Supplementary Table 3. Numeric data for Figure 2: Change from baseline in plasma

cytokines during iberdomide treatment by ultra-sensitive cytokine assays

Adjusted mean (SE)	Week 0	Week 4	Week 12	Week 24
IL-2 (pg/mL)				
Plaasha	0.077	0.322	0.289	0.333
Tacebo	0.277	(0.033)	(0.031)	(0.036)
lbordomido 0 15 mg OD	0 220	0.535	0.434	0.446
iberdomide 0.13 mg QD	0.229	(0.045)	(0.043)	(0.048)
lberdomide 0.3 mg OD	0 311	0.591	0.468	0.489
iberdomide 0.5 mg QD	0.011	(0.036)	(0.036)	(0.041)
lberdomide 0.45 mg OD	0 282	0.694	0.676	0.622
	0.202	(0.033)	(0.033)	(0.035)
IL-10 (pg/mL)				
Plaasba	2 276	2.151	1.871	1.851
Flacebo	2.270	(0.139)	(0.150)	(0.140)
lberdomide 0 15 mg OD	2.586	2.483	1.828	1.630
iberdomide 0.13 mg QD		(0.188)	(0.212)	(0.183)
lberdomide 0.3 mg OD	2 593	2.726	2.487	2.031
iberdomide 0.5 mg QD	2.000	(0.146)	(0.165)	(0.147)
Iberdomide 0.45 mg OD	2 092	2.889	2.597	2.200
	2.002	(0.137)	(0.146)	(0.143)
IL-17A (pg/mL)				
Placebo	0 4 9 0	0.463	0.392	0.445
riacebo	0.490	(0.034)	(0.046)	(0.061)
lberdomide 0 15 mg OD	0.683	0.479	0.434	0.408
iberdomide 0.13 mg QD	0.005	(0.044)	(0.062)	(0.085)
lberdomide 0.3 mg OD	0.511	0.492	0.606	0.638
iberdomide 0.5 mg QD	0.511	(0.035)	(0.054)	(0.063)
lberdomide 0.45 mg OD	0.346	0.466	0.475	0.490
	0.340	(0.032)	(0.046)	(0.057)

IL-17F (pg/mL)				
Placebo	1 921	2.214	1.684	1.715
riacebo	1.921	(0.110)	(0.146)	(0.150)
lberdomide 0 15 mg OD	1 900	2.347	1.600	1.513
iberdomide 0.13 mg QD	1.000	(0.160)	(0.193)	(0.178)
lberdomide 0.3 mg OD	1 680	2.162	1.915	1.773
iberdomide 0.5 mg QD	1.000	(0.112)	(0.166)	(0.158)
lberdomide 0.45 mg OD	2 650	2.065	1.917	1.736
	2.000	(0.112)	(0.141)	(0.154)
IL-21 (pg/mL)				
Placobo	8 030	1.653	2.418	3.018
Flacebo	0.950	(0.519)	(0.418)	(0.808)
Ibordomido 0 15 mg OD	3 649	1.545	2.207	2.691
Iberdomide 0.15 mg QD	0.049	(0.586)	(0.574)	(1.077)
lberdomide 0.3 mg OD	11.487 (0.5	1.496	1.954	3.994
iberdomide 0.5 mg QD		(0.538)	(0.465)	(1.099)
lberdomide 0.45 mg OD	4.793 1.417 (0.553)	1.417	2.206	2.456
		(0.420)	(0.779)	
BLyS (pg/mL)				
Placobo	201 010	349.972	257.891	240.733
riacebo	391.910	(27.884)	(28.241)	(28.804)
Ibordomido 0 15 mg OD	366 604	233.758	258.327	194.094
iberdoffilde 0.15 filg QD	300.004	(36.399)	(36.882)	(31.097)
lberdomide 0.3 mg OD	330 969	262.041	258.493	192.539
	550.303	(27.318)	(30.421)	(24.621)
lberdomide 0.45 mg OD	423 164	282.603	271.577	220.855
	423.164	(26.910)	(27.586)	(24.755)

BLyS, B lymphocyte stimulator; IL, interleukin; SE, standard error.

# Supplementary Table 4. Numeric data for Figure 3: Change from baseline in whole

blood gene expression during iberdomide treatment

Adjusted mean (SE)	Week 0	Week 4	Week 12	Week 24
B cell module				
Plaasha	1 100	1.077	1.087	1.079
FIACEDO	1.105	(0.042)	(0.051)	(0.052)
lbordomido 0 15 mg OD	1 274	0.973	0.974	0.882
iberdoffide 0.15 filg QD	1.274	(0.058)	(0.064)	(0.066)
lberdomide 0.3 mg OD	1 280	0.887	0.770	0.693
iberdomide 0.5 mg QD	1.200	(0.043)	(0.050)	(0.049)
lberdomide 0.45 mg OD	1 389	0.702	0.581	0.496
	1.505	(0.042)	(0.048)	(0.048)
Type 1 IFN module				
Plaasha	1 104	0.997	1.126	1.123
Flacebo	1.124	(0.055)	(0.069)	(0.081)
lbordomido 0 15 mg OD	1.273 0.492 (0.078)	0.492	0.448	0.434
iberdoffide 0.15 flig QD		(0.095)	(0.095)	
lbordomido 0.3 ma OD	1 258	0.507	0.447	0.449
iberdoffide 0.5 frig QD	1.230	(0.060)	(0.075)	(0.087)
lbordomido 0.45 mg OD	1 101	0.482	0.402	0.392
	1.191	(0.055)	(0.070)	(0.070)
Ikaros				
Diasaha	0 900	0.784	0.795	0.786
Placebo	0.820 (0.03	(0.030)	(0.033)	(0.033)
lbordomido 0 15 mg OD	0 706	0.973	0.916	0.901
iberdofflide 0.15 flig QD	0.760	(0.042)	(0.045)	(0.042)
lbordomido 0.2 ma OD	0 709	1.000	1.069	1.008
iberdoffide 0.3 flig QD	0.790	(0.032)	(0.036)	(0.034)
lberdomide 0.45 mg OD	0.845	0.980	1.069	1.035
	0.845	(0.030)	(0.033)	(0.033)

T cell exhaustion module				
Placaba	0 730	0.691	0.705	0.712
Flacebo	0.739	(0.015)	(0.015)	(0.017)
Ibordomido 0 15 ma OD	0 741	0.691	0.674	0.677
iberdofnide 0.15 mg QD	0.741	(0.020)	(0.021)	(0.021)
lberdomide 0.3 mg OD	0 710	0.699	0.687	0.693
iberdonnide 0.5 mg QD	0.710	(0.015)	(0.016)	(0.018)
lberdomide 0.45 mg OD	0 693	0.724	0.699	0.709
	0.000	(0.015)	(0.016)	(0.017)
Ikaros Type 1 INF module				
Placeba	1 1 1 0	1.110 1.054 1.0	1.087	1.118
Placebo	1.110	(0.055)	(0.058)	(0.067)
Ibordomido 0 15 ma OD	1.160	0.560	0.457	0.519
iberdofnide 0.13 mg QD		(0.076)	(0.079)	(0.082)
lberdomide 0.3 mg OD	1.084	0.587	0.516	0.505
iberdomide 0.5 mg QD		(0.056)	(0.061)	(0.069)
lberdomide 0.45 mg OD	1.226 0.487 (0.055)	0.487	0.396	0.376
		(0.055)	(0.057)	(0.060)
Aiolos				
Placebo	0 625	0.659	0.632	0.562
r lacebo	0.055	(0.028)	(0.029)	(0.029)
lbordomido 0 15 mg OD	0.637	0.696	0.747	0.697
	0.037	(0.039)	(0.039)	(0.040)
lberdomide 0.3 mg OD	0 704	0.735	0.760	0.703
	0.704	(0.029)	(0.031)	(0.033)
lberdomide 0.45 mg OD	0 692	0.688	0.744	0.716
	0.692	(0.028)	(0.030)	(0.030)

IFN, interferon; SE, standard error.

**Supplementary Table 5.** Numeric data for Figure 5: Clinical efficacy treatment comparison (Week 24 SRI-4 response rate, iberdomide 0.45 mg – placebo) within prespecified patient subsets defined by gene expression at baseline

Patient subset	SRI-4 at Week 24	95% CI
Overall	19.4	4.12, 33.42
Aiolos high	32.9	7.74, 52.90
Type 1 IFN high	26.8	7.49, 43.54
Ikaros IFN high	24.3	5.45, 40.76
T cell exhaustion low	21.9	4.30, 37.77
B cell high	20.4	0.74, 38.01
Ikaros low	21.5	-9.16, 48.45
B cell low	17.1	-7.45, 39.64
Ikaros high	16.1	-1.76, 32.65
Aiolos low	9.0	-10.11, 27.50
Ikaros IFN low	8.3	-17.65, 34.68
Type 1 IFN low	7.0	-18.01, 32.11
T cell exhaustion high	4.1	-24.69, 33.88

Stratified Difference, %,

CI, confidence interval; IFN, interferon; SLE, systemic lupus erythematosus; SRI, SLE responder index.

Supplementary Figure 1. Population-predicted exposure by dose in A) all patients, B) patients by type I IFN signature at baseline and C) patients by Aiolos expression at baseline. The horizontal bold line in each boxplot represents the median value. The top and bottom edges of the box represent the 25th and 75th percentiles, respectively. Whiskers represent 1.5 × interquartile range. Dots are outliers. AUC<sub>ss</sub>, area under concentration-time curve at steady state.





Supplementary Figure 2. Biomarker baseline and percent change from baseline values in IFN-Low (type I IFN genes  $\leq$  -1.38) and IFN-High (type I IFN genes > -1.38) subsets for type I IFN signature score [*IFI27, IFI44, IFI44L, RSAD2*], CD303+ plasmacytoid dendritic cells, CD19+ B cells, interleukin-2, regulatory T cells, and double-stranded DNA antibodies (in patients with baseline dsDNA Abs  $\geq$  8 IU/mL). \*p $\leq$ 0.05, \*\*p $\leq$ 0.01,\*\*\*p $\leq$ 0.001.

From N Engl J Med, Merrill JT, Werth VP, Furie R, van Vollenhoven R, Dörner T, Petronijevic M, et al, Phase 2 trial of iberdomide in systemic lupus erythematosus, Volume No. 386, 1034-1045. Copyright © 2022 Massachusetts Medical Society. Reprinted with permission.





Supplementary Figure 3. Biomarker baseline and percent change from baseline values in Aiolos-Low (*IKZF3*  $\leq$  -0.49) and Aiolos-High (*IKZF3* > -0.49) subsets: IFN signature score, CD303+ plasmacytoid dendritic cells, CD19+ B cells, interleukin-2, regulatory T cells, and double-stranded DNA antibodies (in patients with baseline dsDNA Abs  $\geq$  8 IU/mL). \*p $\leq$ 0.05, \*\*p $\leq$ 0.01,\*\*\*p $\leq$ 0.001.



