Supplementary information

Supplementary Table 1. Dose-Limiting Toxicity Criteria.

Supplementary Table 2. Detailed adverse events by study arm.

Supplementary Table 1. Dose-Limiting Toxicity Criteria; CTCAE: NCI Common Toxicity Criteria for Adverse Events version 4.0.

Toxicity	DLT criteria									
	Anemia CTCAE Grade 3 for > 14 consecutive days									
	Anemia CTCAE Grade 4									
	Febrile neutropenia CTCAE Grade ≥ 3									
Blood and lymphatic system	Neutropenia CTCAE Grade 3 for > 7 consecutive days									
disorders	Neutropenia CTCAE Grade 4									
	Thrombocytopenia CTCAE Grade 3 for > 7 consecutive days and/or with signs of clinically significant bleeding									
	Thrombocytopenia CTCAE Grade 4									
	Cardiac toxicity CTCAE Grade ≥ 3 or cardiac event that is symptomatic or requires medical intervention									
Cardiac disorders	Clinical signs of cardiac disease, such as unstable angina or myocardial infarction, or Troponin CTCAE Grade 3 (confirmed with a repeat Troponin within 24 hrs)									
	ECG QTc interval prolonged CTCAE Grade ≥ 3									
Vascular disorders/ Hypertension	Persistent hypertension CTCAE Grade ≥ 3 requiring more than one drug or more intensive therapy than previously									
General disorders and administration site conditions	Fatigue CTCAE Grade 3 for > 7 consecutive days									
Skin and subcutaneous tissue disorders ^a :	Rash or photosensitivity CTCAE Grade 3 for >7 consecutive days despite skir toxicity treatment, or any second or third occurrence of CTCAE Grade 3 rash regardless of duration									
Rash and/or photosensitivity	Rash or photosensitivity CTCAE Grade 4									
Metabolism and nutrition	Hyperglycemia Grade 3(fasting plasma glucose 250 – 500mg/dL) (confirmed with a repeat fasting plasma glucose test within 48 hours) that does not resolve to grade 0 within 14 consecutive days (after initiation of oral anti-diabetic treatment)									
disorders: Hyperglycemia b										
	Hyperglycemia Grade 4									
	Hyperglycemia leading to diabetic keto-acidosis, hospitalization for IV insulin infusion, or non-ketotic coma									
	Diarrhea CTCAE Grade ≥ 3 for ≥ 48 hrs, despite the use of anti-diarrhea therapy									
GI disorders ^a	Nausea/vomiting CTCAE Grade ≥ 3 for ≥ 48 hrs, despite the use of anti-emetic therapy									
	Pancreatitis CTCAE Grade ≥ 3									
Eye disorder	CTCAE Grade ≥ 3									
	Blood bilirubin d CTCAE Grade 2 for > 7 consecutive days									
	Blood bilirubin d CTCAE Grade ≥ 3									
	AST or ALT CTCAE Grade ≥ 3 in conjunction with blood bilirubin d CTCAE									
	Grade ≥ 2 of any duration									
	AST or ALT CTCAE Grade 3 for > 7 consecutive days									
Blood chemistries c	AST or ALT CTCAE Grade 4									
Dioda oriornidatos o	Serum alkaline phosphatase CTCAE Grade 4									
	Serum lipase and/or serum amylase (asymptomatic) CTCAE Grade 3 for > 7 consecutive days									
	Serum lipase and/or serum amylase (asymptomatic) CTCAE Grade 4									

	Serum creatinine CTCAE Grade 2 for > 7 consecutive days
	Serum creatinine CTCAE Grade ≥ 3
	Any other clinically significant CTCAE ≥ Grade 3 toxicity
	Any intolerable CTCAE Grade 2 toxicity
Other hematologic and non- hematologic toxicities	Apart from the criteria listed above, if a lower grade AE leads to a dose interruption of more than 7 consecutive days of BYL719, this AE will be considered as DLT

^a Patients will receive prophylactic treatment for rash with an antihistamine beginning on cycle 1 day 1. Patients will not initially receive prophylactic treatment for nausea/vomiting during Cycle 1. However, prophylactic treatment may be initiated in all patients at the dose level where these toxicities have been observed and in all further patients if at least 1 patient has experienced nausea/vomiting CTCAE Grade ≥ 3 or if at least 2 patients experienced skin toxicity or nausea/vomiting CTCAE Grade ≥ 2 (see Section 11.2 and Table 10-2 for further details). Anti-emetics may be applied for treatment if the patient has experienced nausea/vomiting CTCAE Grade ≥ 1, at the discretion of the physician.

^b Hyperglycemia occurring during corticosteroids administration will be only be considered DLT if not resolved within 5 days after the end of corticosteroid treatment.

^C For any hepatic toxicity CTCAE Grade 4, or CTCAE Grade 3 that does not resolve within 7 days to CTCAE Grade \leq 1 (or CTCAE Grade \leq 2 if liver infiltration with tumor present), an abdominal CT scan should be performed to assess if it is related to disease progression.

^d Refers to total bilirubin.

Supplementary Table 2. Detailed adverse events by study arm.

				Arm / trozo lisib	le +	1				B tane + Daily			Letro: pelisik		daily		f			Α	All Arms (n=51)									
	250mg (n=3)			300mg (n=4)			300mg (n=7)				250mg)	30	00mg	ງ (n=6)	2	250mg	(n=3)	300m	g (n=6)	35	50mg ((n=16	5)						
	All		G3		All		G3		AII	G3		All		G3		II	G3		All	G3	All	G3	All		G3		A	All	(G 3
	n	%	n %	6 n	%	•	n %	n	%	n %	n	%	n	%	n	%	n %	n	%	n %	n %	n %	n	%	n	%	n	%	n	%
General																														
Fatigue	3	100		4	- 10	00		7	100		2	33			3	50		1	33		5 83		8	50			33	65		
Fever	0	0		() ()		2	29		0	0			1	17		0	0		0 0		0	0			3	6		
Weight Loss	0	0		1	2	5		2	29		0	0			1	17		0	0		1 17		0	0			5	10		
Hypotension	0	0		() ()		0	0		0	0			1	17	1 17	0	0		0 0		0	0			1	2	1	2
Hot flashes	3	100		1	2	5		3	43		0	0			1	17		0	0		1 17		2	13			11	22		
Metabolic																														
Hyperglycemia	2	67		3	7	5		4	57	1 14	6	100			4	67		2	67		5 83		14	87	4	25	40	78	5	10
Hypokalemia	0	0		1	2	5		0	0		0	0			1	17		0	0		0 0		0	0			2	4		
Hyperbilirubinemia	0	0		() ()		0	0		0	0			0	0		0	0		1 17	1 17	0	0			1	2	1	2
Hypomagnesemia	0	0		() ()		0	0		1	17			2	33		0	0		0 0		0	0			3	6		
GI																														
Abdominal	1	33		3	7	5	1 25	1	14		0	0			2	33		0	0		1 17		2	12			10	20	1	2
Anorexia	2	67		2	. 10	00		4	57		2	33			3	50		0	0		4 67		8	50			27	53		
Diarrhea	1	33		3	7	5		3	43		1	17			4	67		1	33		1 17		14	87			28	55		
Dyspepsia	1	33		3	7	5		5	71		0	0			1	17		1	33		3 50		6	37			20	39		
GERD	0	0		() ()		0	0		1	17			1	17		0	0		2 33		3	19			7	14		
Mucositis	2	67		3	7	5		5	71		3	50			4	67		1	33		5 83		5	31			28	55		
Nausea/Vomiting	3	100		4	- 10	00		6	86		4	67			1	17		3	100		1 17		5	31			27	53		
Dermatologic																														
Alopecia	2	67		1	2	5		1	14		2	33			0	0		1	33		2 33		6	37			15	29		
Dry skin	2	67		2	5	0		2	29		1	17			2	33		1	33		1 17		2	12			13	25		
Rash	2	67	1 3	3 3	7	5	2 50	4	57	4 57	3	50	2	33	2	33	2 33	0	0		2 33	2 33	6	37	4	25	22	43	17	33
Cardiac																														

QTc prolongation	3	100	3	75	1 25	3	. 4	43	6	100				4	67	2	67	4	67	3	19			28	55	1	2
Respiratory																											
Dyspnea	1	33	0	0		1	1	14	1	17			:	2	33	0	0	2	33	2	12			9	18		
Rheumatologic																											
Arthralgia	2	67	3	75		1	1	14	1	17				1	17	0	0	0	0	3	19			11	22		
Joint ROM reduced	2	67	1	25		3	. 4	43	0	0				0	0	0	0	0	0	0	0			6	12		
Hematologic																											
Anemia	1	33	1	25		2	2	29	3	50				1	17	0	0	1	17	0	0			9	18		
Lymphopenia	0	0	1	25	1 25	0		0	1	17	1	17	7	0	0	0	0	0	0	1	6	1	6	3	6	3	6
Thrombocytopenia	0	0	0	0		2	2	29	0	0				0	0	0	0	1	17	0	0			3	6		
Leukopenia	1	33	0	0		3	. 4	43	1	17				1	17	0	0	0	0	1	6			7	14		
Neurologic																											
Dizziness	0	0	1	25		3	. 4	43	1	17				1	17	1	33	0	0	0	0			7	14		
Dysgeusia	1	33	0	0		1	1	14	0	0				0	0	1	33	2	33	5	31			10	20		
Investigational																											
ALP increased	0	0	2	50		1	1	14	1	17			:	2	33	0	0	2	33	4	25			12	24		
ALT increased	0	0	0	0		4	. 5	57	2	33			:	2	33	0	0	2	33	5	31			15	29		
AST increased	1	33	0	0		3	. 4	43	1	17			;	3	50	0	0	2	33	6	37			16	31		
Hypoalbuminemia	0	0	0	0		2	2	29	0	0			(0	0	0	0	0	0	3	19			5	10		
Hypocalcemia	1	33	1	25		1	1	14	0	0			:	2	33	0	0	0	0	0	0			5	10		
Hypernatremia	0	0	0	0		1	1	14	0	0				0	0	0	0	0	0	3	19			4	8		
Hypoglycemia	0	0	0	0		0)	0	0	0				0	0	0	0	0	0	0	0			0	0		
Lipase increased	2	67	1	25		3	. 4	43	2	33				2	33	0	0	3	50	6	37	2	12	19	37	2	4
Amylase increased	0	0	2	50		0	<u> </u>	0	0	0				0	0	1	17	0	0	4	25			7	14		