

MAC INTRAMUSCULAR + INTRANASAL THERAPEUTIC DOSING PROTOCOL LABS

MARKER	UNITS	PRE IM+IN	03-Aug-22	09-Nov-22	25-Jan-23	17-Feb-23	LAB RANGE	NOTES
WEEKLY RAPA DOSE INTRAMUSCULAR (IM)	mg	NA	15	15	15			FEB 17, 23: WASHOUT PERIOD
WEEKLY RAPA DOSE INTRANASAL (IN)	mg	NA	5.8	5.8	5.8			
1 WEEK TROUGH SIROLIMUS	ng/mL	0	11.1	3.9	7.5		3-15	JAN 25, 23: 2.0 PROTOCOL: FROZEN IM SYRINGES
TC	mg/dL	224	221	248	234	234	<200	
LDL	mg/dL	135	129	157	142	139		
HDL	mg/dL	77	66	75	69	83	>39	
TG	mg/dL	55	128	81	119	63	<150	TG RISE IS EXCELLENT PROXY FOR TROUGH
TG/HDL	mg/dL	0.71	1.94	1.08	1.72	0.76	<1	
NON HDL CHOLESTEROL	mg/dL		173	155	165	152	<165	
REMNANT CHOLESTEROL	mg/dL	12	26	16	23	12	<15.5	
ApoaB	g/L	NA	1.16	1.19	1.15	1.14	<1.2	UNCHANGED BY THERAPEUTIC RAPAMYCIN?
Apoa1	g/L	NA	1.57	1.68	1.71		1.04-2.02	
ApoaB/Apoa1	NA	NA	0.74	0.74	0.74		<0.75	
CAC	Agastson	62						
VO2max	ml/kg-min	45						
ALBUMIN	g/L	46	43	44	45		35-52	
CREATININE	umol/L	71	73	74			60-110	
EGFR	mL/min/1.73m2	100	98	97	100		>60	
ALT	U/L	17	13	21	26		<46	
GGT	U/L	23	23	27	27		<60	
URIC ACID	mmol/L	185	162	182	167		220-512	
CALCIUM	mmol/L				2.43		2.15-2.6	
PHOSPOROUS	mmol/L				1.41		0.8-1.45	
VITAMIN D (25OH)	mmol/L	230			232		76-250	
VITAMIN B12	pmol/L	1475			1294		>220	
MAGNESIUM PLASMA	mmol/L				0.86		0.65-1.05	
ALBUMIN	g/L				45		35-52	
ALP	U/L	52	59		66		40-129	
FASTING BLOOD GLUCOSE	mg/dL	92	104	99	104	95	65-108	FG ANOTHER TROUGH PROXY
FASTING INSULIN	pmol/L			18	38		15-174	
hbA1C	%	5.1	5.5	5.2	5.8	5.3	<6	hbA1C ANOTHER TROUGH PROXY
hsCRP	mg/L	0.3		0.4	1.3		<8	
B12	pmol/L	1472			1295		>220	
IL-6	pg/mL	NA	<2.5				0-13	
TNF- α	pg/mL	NA	0.8				0-2.2	
FERRITIN	ug/L	14	13	21	50		18-543	
IRON PLASMA	umol/L	NA	6		9		7-29	
TIBC	umol/L	NA	65		58		45-77	
TRANSFERRIN	g/L	NA	2.8	3.3	2.6		2.1-3.6	
TRANSFERRIN SATURATION	%	21	9		16		20-50%	STILL QUITE LOW
CBC								
HEMOGLOBIN	g/L	133	122	139	124	132	129-165	
HEMATOCRIT	L/L	0.4	0.37	0.42	0.374	0.4	0.39-0.49	
RED BLOOD CELL COUNT	10 ¹² /L	4.5	4.3	5.2	4.72	4.96	4.2-5.8	
MEAN CELL VOLUME (MCV)	fL	88	85	80	79	80	80-98	
MEAN CELL HEMOGLOBIN (MCH)	pg	29	28.0	27	26	26.6	24-33	
MEAN CELL HEMOGLOBIN CONCENTRATION	g/L	330	330	336	332	335	313-344	
RBC DISTRIBUTION WIDTH	%	15.1	14.2	17.7	15.2	15.5	12.5-17.3	
WHITE BLOOD CELL COUNT	10 ⁹ /L	3.7	3.5	3.3	4.3	3.6	3.2-9.4	
PLATELET COUNT	10 ⁹ /L	181	188	196	147	237	155-372	
MEAN PLATELET VOLUME	fL	9.8	9.3	8.7	9.3		4.0-14.0	
WBC NEUTROPHILS	10 ⁹ /L	1.7	2.0	1.7	1.1	2	1.4-6.3	
WBC LYMPHOCYTES	10 ⁹ /L	1.5	1.0	1.1	0.3	1.1	1.0-2.9	
WBC MONOCYTES	10 ⁹ /L	0.3	0.3	0.3	0.3	0.4	0.2-0.8	
WBC EOSINOPHILS	10 ⁹ /L	0.1	0.1	0.2	0.5	0.1	0.0-0.5	
WBC BASOPHILS	10 ⁹ /L	0.0	0.0	0	0.04	0	0.0-0.9	
IMMUNO								
C3 COMPLIMENT	g/L			1.11	1.35		0.9-1.80	IMMUNO MARKERS LOW NORMAL
C4 COMPLIMENT	g/L			0.18	0.22		0.1-0.4	
SEDIMENTATION RATE	mm/hr			9	13		0-20	
T LYMPHOCYTES	10x9/L			0.71	0.68		0.67-2.35	
CD4 LYMPHOCYTES	10x9/L			0.48	0.46		0.42-1.54	
CD8 LYMPHOCYTES	10x9/L			0.18	0.17		0.13-0.81	
CD4/CD8				2.61	2.65		0.8-3.2	
T LYMPHOCYTES	%			62.30%	61.01%		NA	
CD4 LYMPHOCYTES	%			41.20%	42.66%		NA	
CD8 LYMPHOCYTES	%			16%	16%		NA	
CD57	10x9/L			0.11	0.059		.036-.212	
CD57 LYMPHOCYTES	%			9.90%	5.60%		NA	
B LYMPHOCYTES	10x9/L			0.16	0.18		0.08-0.52	
% CD19+	10x9/L			14.40%	16.84%		NA	
NATURAL KILLER CELLS	0.14-0.54			0.23	0.17		0.14-0.54	
NATURAL KILLER CELLS %	%			21.20%	15.79%		NA	