

美迪西STAT3新药研发服务

STAT3

STAT3

+

IND

STAT3

STAT3

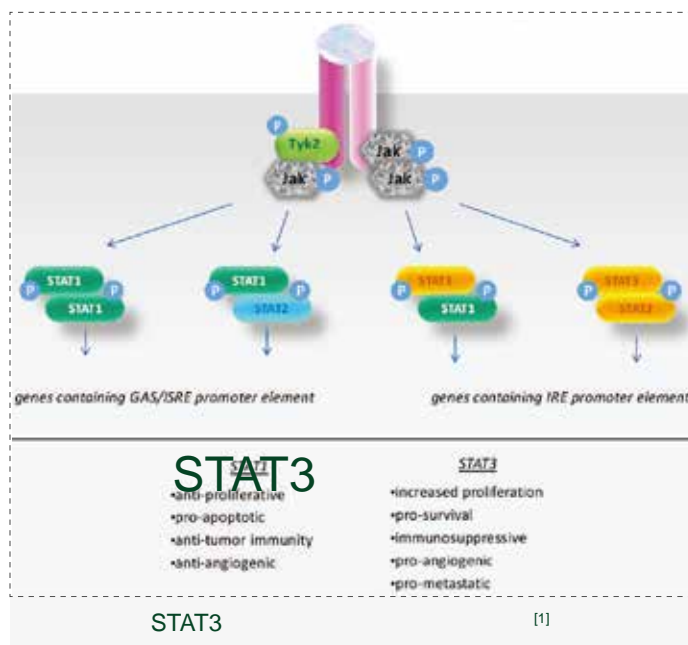
(signal transducer and activator of transcription, STAT)

STAT3

STAT3

STAT3

STAT3



STAT

STAT1 STAT2 STAT3 STAT4 STAT5A STAT5B STAT6 STAT3

C

55

DNA

STAT3

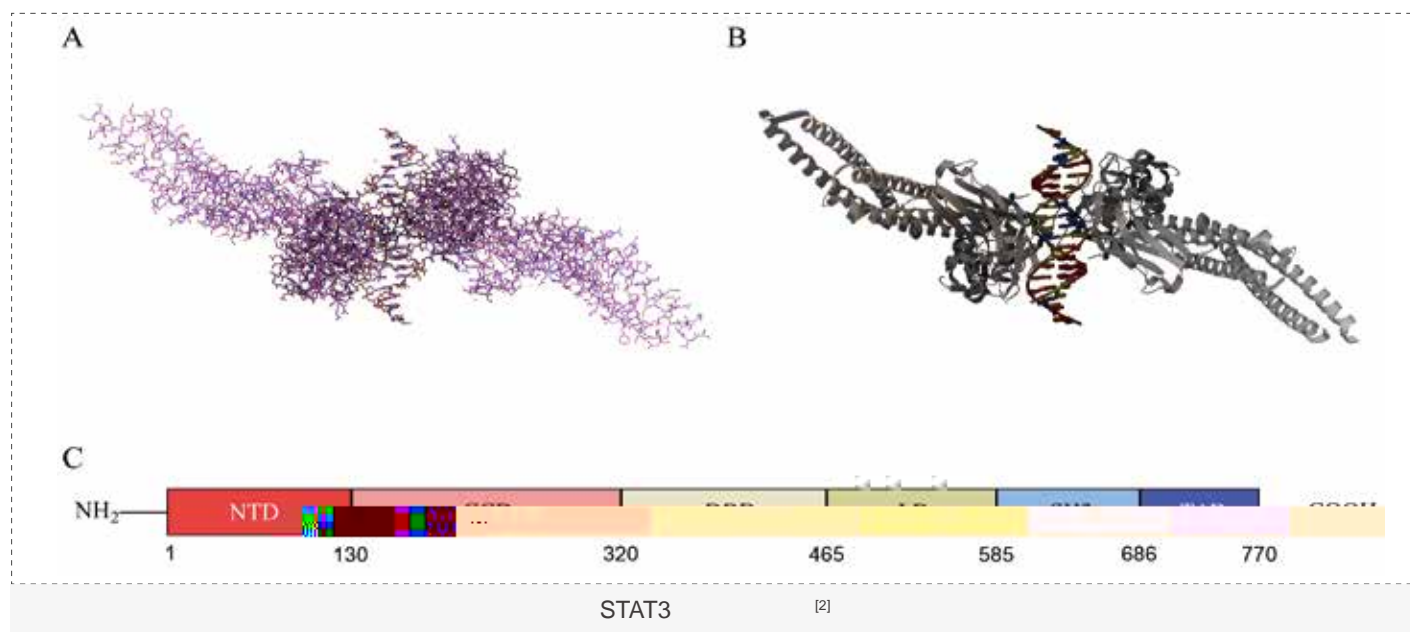
STAT3

770

17



-
- N (NTD) STAT
 ● (CCD) STAT3
 ● DNA (DBD) DNA
 ● (LD) DBD SH2 DNA
 ● SRC 2 (SH2) STAT STAT3
 ● STAT3
 ● (TAD)



STAT3

JAK/STAT

(IL)

IL-6

TME

IL-6

IL-6

TME

IL-6

IL-6

JAK/STAT3

IL-6/JAK/STAT3

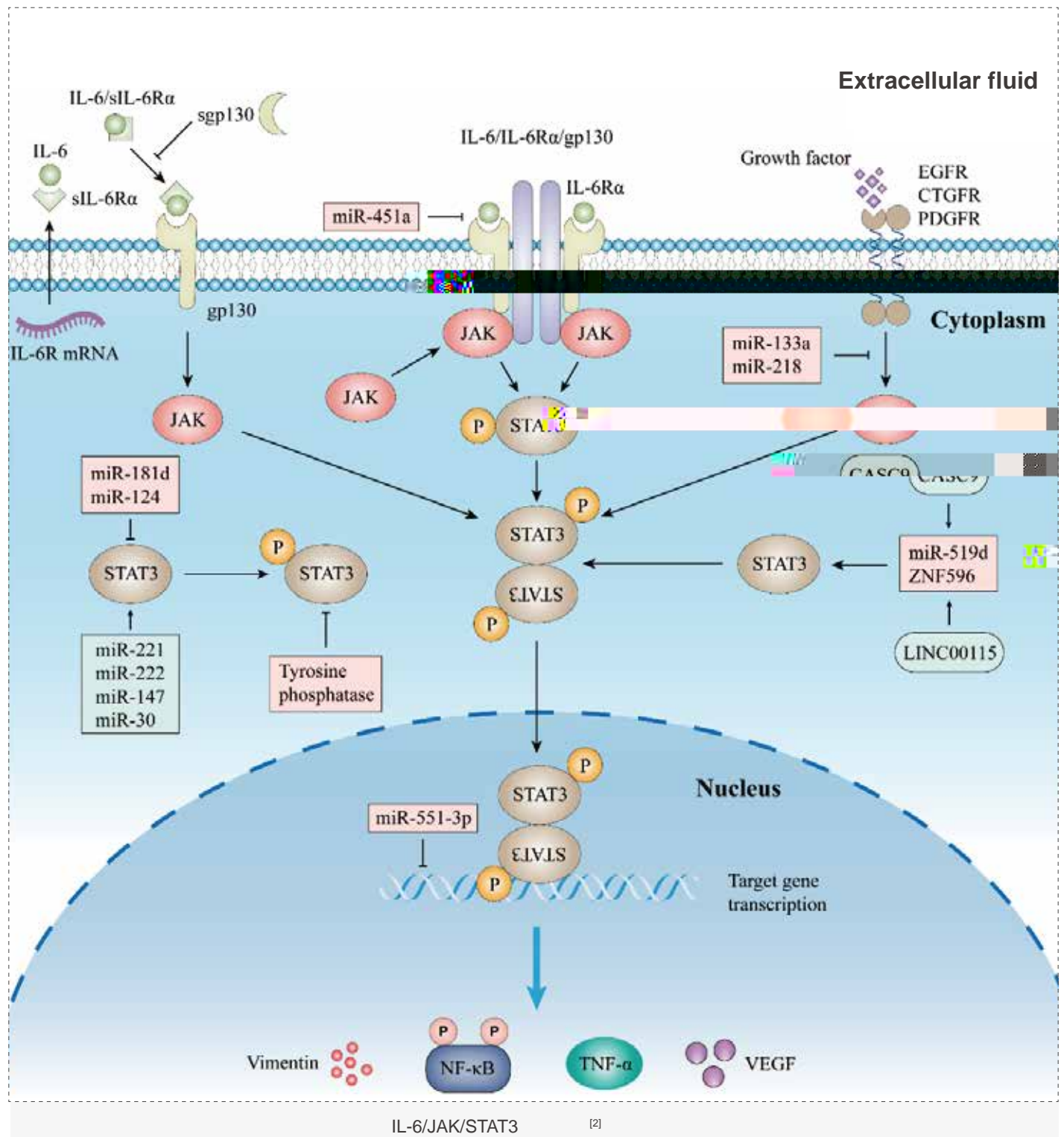
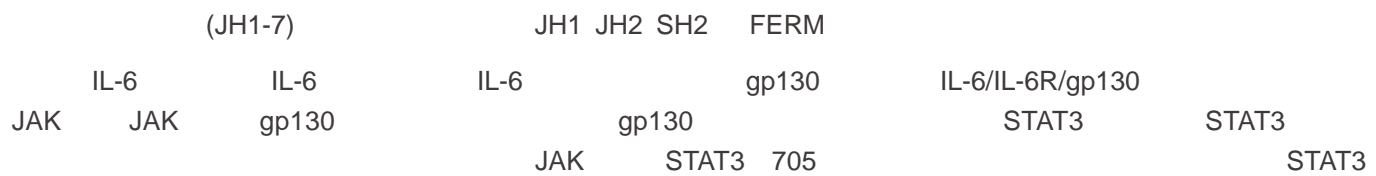
JAK

JAK1 JAK2 JAK3

JAK

TYK2

JAK3



STAT3

STAT3

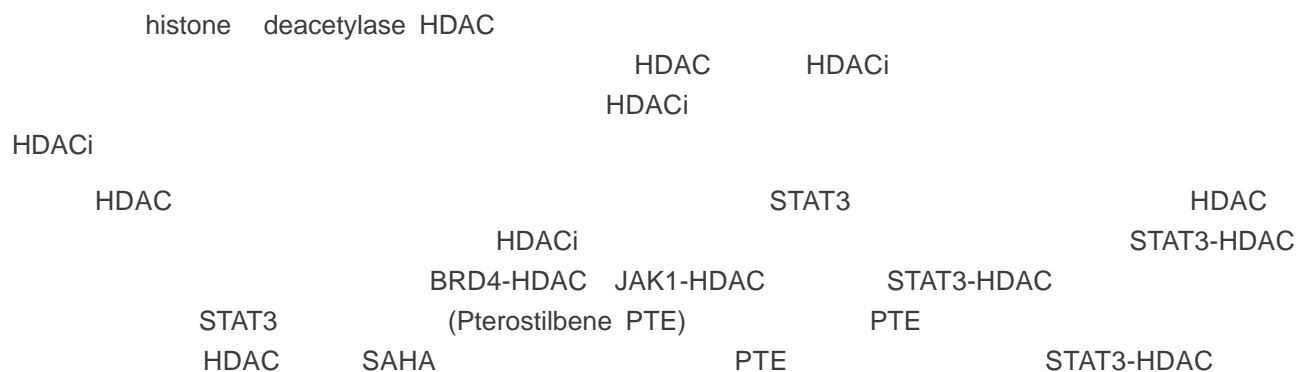
STAT3

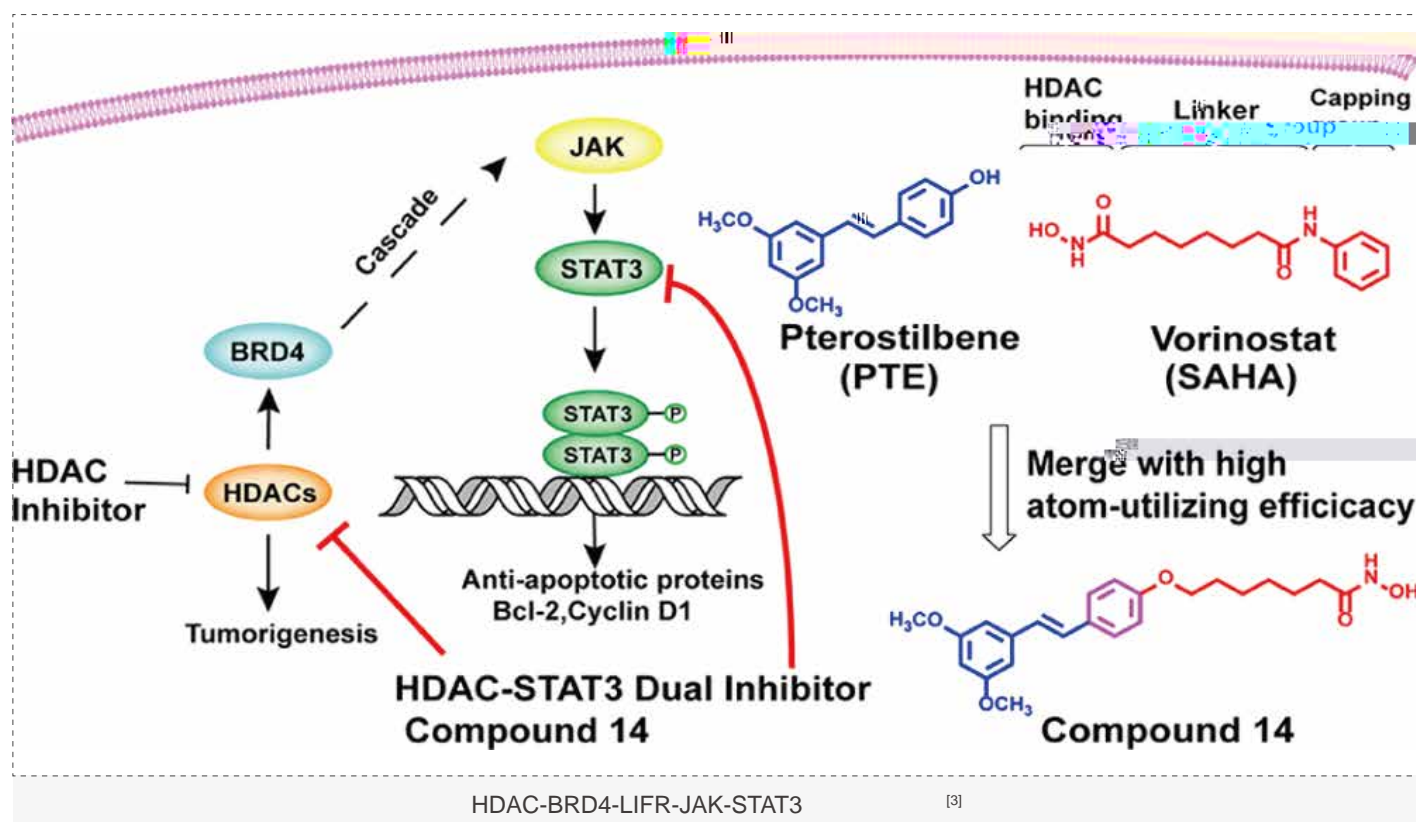
STAT3

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NCT Number	STAT3 Inhibitors	Cancer Types	Targets	Phase
NCT03382340	IMX-110	Solid Tumor *	STAT3/NF-kB	I/II
NCT02983578	AZD9150	PC, NSCLC, CRC	STAT3	II
NCT02993731	Napabucasin	PC	STAT3	III

STAT3-HDAC





Compound 14	STAT3	$K_D=33$ nM
HDAC IC ₅₀ 23.15 nM	Compound 14	MDA-MB-231 IC ₅₀
HCT116 IC ₅₀	Compound 14	
Compound 14	Compound 14	
53%	30 mg/kg	64%
Compound 14	Compound 14	15 mg/kg
	Compound 14	54%
Compound 14	Compound 14	
Compound 14	SD	(PK)
Compound 14	Compound 14 2 mg/kg	V_{ss} 1.65 L/kg
(CI) 63.89 mL/min/kg	$T_{1/2}$ 0.47h	Compound 14 20 mg/kg
5.81%	$T_{1/2}$ 0.88h	F

