

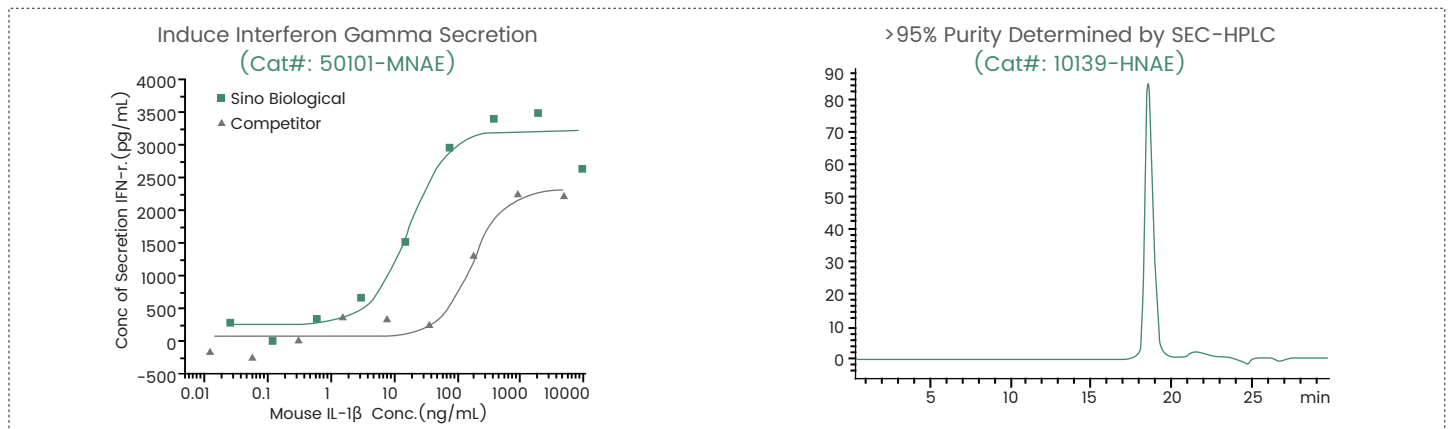
IL1-beta Primes Innate Immunity

The innate immunity, mediated by IL1 family proinflammatory cytokines, is the first line of defense against infections. Interleukin-1 β (IL-1 β), along with IL1-alpha and IL18, orchestrate the immune response through multiple downstream mechanisms. IL1-beta participates in the regulation of IL6 and TNF-alpha, and it also activates the vascular adhesion molecules ICAM1.











IL1-beta transduces its signal through binding with the receptor IL1RI, which is complexed with the accessory protein IL1RAC1. IL1-beta signaling is negatively regulated by the decoy receptor IL1-RII, and the receptor antagonist IL1RA.

Mature IL-1 β Proteins

Compared to the competing product, Sino Biological's IL-1 β protein demonstrates a higher bioactivity as shown below.

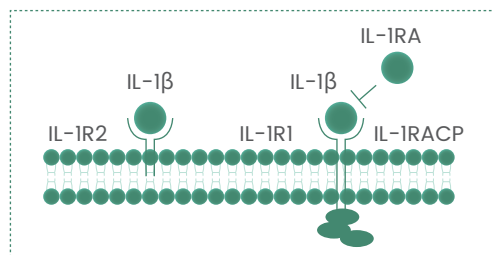


List of Recombinant IL-1 β

<p>10139-H07E (Pro Form)  H</p> <ul style="list-style-type: none"> • Bind to Human IL1R2 • Induce Interferon Gamma Secretion • Cell Proliferation 	<p>70018-DNAE (Mature Form)  C</p> <ul style="list-style-type: none"> • Bind to Human IL1R1 • Induce Interferon Gamma Secretion • Cell Proliferation 	<p>10139-HNAE (Mature Form)  H</p> <ul style="list-style-type: none"> • Bind to Human IL1R1
<p>50101-MNAE (Mature Form)  M</p> <ul style="list-style-type: none"> • Induce Interferon Gamma Secretion 	<p>80023-RNAE (Mature Form)  R</p> <ul style="list-style-type: none"> • Induce Interferon Gamma Secretion • Cell Proliferation 	<p>62003-WNAE (Mature Form)  P</p> <ul style="list-style-type: none"> • Induce Interferon Gamma Secretion
<p>65004-TNAE (Mature Form)  Ra</p> <ul style="list-style-type: none"> • Induce Interferon Gamma Secretion 	<p>90010-CNAE (Mature Form)  Cy</p> <ul style="list-style-type: none"> • Induce Interferon Gamma Secretion • Cell Proliferation 	<p>67002-UNAE (Mature Form)  F</p> <ul style="list-style-type: none"> • Cell Proliferation
<p>80023-R07E (Pro Form)  R</p>	<p>Note: H: Human; R: Rat; Ra: Rabbit; M: Mouse; C: Canine; Cy: Cynomolgus; P: Sus scrofa (Pig); F: Feline;</p>	

IL-1 β Signaling

Receptors	IL-1R1	Induce downstream signaling cascade and gene transcription involved in inflammatory and immune pathways
	IL-IRACP	
	IL-IR2	Decoy receptor
Receptor Antagonist	IL-1RA	Compete with IL1 to bind IL-1R1
Family Member	IL-1 α	Other important member of IL-1 family, shares some overlapping function with IL-1 β .



List of Recombinant IL-1 β Signaling Component

Catalogue	Species	Molecule	Activity	Tag
10128-HNCH	Human	IL-1 α	Cell proliferation; Induced Interferon gamma secretion	
50114-MNAE	Mouse	IL-1 α	Cell proliferation; Bind to mouse IL-1R1; Induced Interferon gamma secretion	
80385-RNAE	Rat	IL-1 α		
10126-H02H	Human	IL-1R1	Bind to Human, canine, and mouse IL-1 β	hFc
10126-H08H	Human	IL-1R1	Bind to Human IL-1 β ; Inhibit Interferon gamma secretion	His
10126-HCCH	Human	IL-1R1		
50807-M02H	Mouse	IL-1R1	Bind to Human IL-1 β ; Inhibit Interferon gamma secretion	hFc
50807-M08H	Mouse	IL-1R1	Bind to mouse IL-1 β and IL-1 α ; Inhibit Interferon gamma secretion	C-His
80028-R06H	Rat	IL-1R1		Fc & His
80028-R08H	Rat	IL-1R1	Bind to human IL-1RA	His
90279-C02H	Cynomolgus	IL-1R1	Bind to human IL-1RA	hFc
90279-C08H	Cynomolgus	IL-1R1	Bind to human IL-1RA	His
10111-H02H	Human	IL-1R2	Bind to human IL-1 β ; Inhibit Interferon gamma secretion	hFc
10111-H08H	Human	IL-1R2	Inhibit IL1 β -dependent proliferation and Interferon gamma secretion	His
10111-HCCH	Human	IL-1R2	Bind to human IL-1 β	
51090-M02H	Mouse	IL-1R2	Bind to human IL-1 α	hFc
51090-M08H	Mouse	IL-1R2	Bind to human IL-1 β	His
70093-D02H	Canine	IL-1R2	Bind to human IL-1 β	hFc
80196-R08H	Rat	IL-1R2		His
90120-C02H	Cynomolgus	IL-1R2	Bind to human IL-1 β	hFc
HPLC-10111-H08H	Human	IL-1R2		His
10121-H27H-B	Human	ILIRAP		AVI & His
90934-C02H	Cynomolgus	ILIRAP		hFc
90934-C08H	Cynomolgus	ILIRAP		His
10123-H01H	Human	IL-1RA		hFc
10123-HNAE	Human	IL-1RA	Bind to human IL-1R2 and human IL-1R1; Induce Interferon gamma secretion	
80073-R01H	Rat	IL-1RA	Bind to rat IL-1R1	hFc
80073-R08E	Rat	IL-1RA		His
90947-C08E	Cynomolgus	IL-1RA		His



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