

## IL-36 $\beta$ , Human Recombinant

<b>CATALOG #:</b>	7110-10	10 $\mu$ g
	7110-50	50 $\mu$ g
<b>ALTERNATE NAMES:</b>	IL-1F8, IL-1H2, IL-1 eta, IL-1F8	
<b>SOURCE:</b>	E.coli	
<b>PURITY:</b>	$\geq$ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	17.3 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/ $\mu$ g of protein (<1EU/ $\mu$ g).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

The IL-1 family is comprised of 11 structurally related ligands, including recently re-named IL-36 $\alpha$  (IL-1F6),  $\beta$  (IL-1F8) and  $\gamma$  (IL-1F9). IL-36 $\beta$  is highly expressed in psoriatic plaques, and at lower levels in various other tissues. IL-36 $\beta$  signals through the IL-1Rrp2 (IL-1R6) receptor, which is primarily expressed on certain dendritic cells. The interaction of the IL-1Rrp2 receptor with IL-36 ligands induces dendritic cell maturation and activation. IL-36 $\beta$  also functions as an agonist of NF-kappaB, and stimulates the production of pro-inflammatory proteins, including IL-6, IL-8, BD-2, and BD-3. Recombinant human IL-36 $\beta$  is a 17.3 kDa protein containing 154 amino acid residues.

**BIOLOGICAL ACTIVITY:**

Measured by its ability to induce IL-8 production by human PBMCs

**AMINO ACID SEQUENCE:**

MREAAPKSYA IRDSRQMVVW LSGNSLIAAP LSRSIKPVTI HLIACRDTEF SDKEKGNMVMY  
LGIKGKDLCL FCAEIQQKPT LQLKEKNIMD LYVEKKAQKP FLFFHNKEGS TSVFQSVSYP  
GWFIAITSTTS GQPIFLTKER GITNNTNFYL DSVF

**RELATED PRODUCTS:**

- IL-36RA, human recombinant (Cat # 7109-10, -50)
- IL-36 $\gamma$ , mouse recombinant (Cat # 7111-10, -50)
- IL-17A, mouse recombinant (Cat # 7105-10, -50)
- IL-17B, human recombinant (Cat # 7106-10, -50)
- Human Cell<sup>exp</sup> Human Recombinant IL-17A (Cat # 6468-10, -50)
- Human Cell<sup>exp</sup> Human Recombinant IL-17F (Cat # 6469-10, -50)
- IL-17, murine recombinant (Cat # 4177-10, -1000)
- IL-17A, human recombinant (Cat # 4176-25, -1000)
- IL-17A, rat recombinant (Cat # 4178-25, -1000)
- IL-17A/F, human recombinant (Cat # 4176AF-10, -50, -1000)
- IL-17E, human recombinant (Cat # 4176E-25, -1000)
- IL-17E, murine recombinant (Cat # 4177E-25, -100, -1000)
- IL-17E, rat recombinant (Cat # 4178E-25, -100, -1000)
- IL-17F, human recombinant (Cat # 4176F-25, -1000)
- IL-17F, murine recombinant (Cat # 4177F-25, -100, -1000)
- IL-17F, rat recombinant (Cat # 4178F-25, -100, -1000)
- IL-17 Antibody (Cat # 5176-200)

**FOR RESEARCH USE ONLY! Not to be used in humans.**