

TECHNICAL DATA SHEET

# Recombinant Human IL-36 $\beta$ (IL-1F8) (Carrier-free)

Catalog Number: 21-8372

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

**CONTENTS**

Recombinant Human IL-36 $\beta$  (IL-1F8) (Carrier-free)

**DESCRIPTION**

IL-36 beta, also known as IL-1F8, is a member of the IL-1 family of cytokines and binds to the IL-1R6 (IL-1Rrp2) receptor. It is reported to be expressed by resting and activated monocytes and B cells and at low levels in various tissues. It is highly expressed in psoriatic plaques. IL-36 beta displays proinflammatory effects and, like other IL-36 cytokines, can activate NF- $\kappa$ B and MAPK signaling pathways.

**MOLECULAR MASS**

Recombinant Human IL-36 beta contains 154 amino acid residues resulting in a 17.3 kDa protein.

**AMINO ACID SEQUENCE**

MREAAPKSYA IRDSRQMVVW LSGNSLIAAP LRSIKPVT LHLIACRDTEF SDKEKGNM VYLGIKGKDLCL FCAEIQ GKPT LQLKEKNIMD LYVEKKAQKP FLFFHNKEGS TSVFQSVSYP GWF IATSTTS GQPIFLTKER GITNNTNFYL DSVE

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/ $\mu$ g of protein (<1 EU/ $\mu$ g).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

**BIOACTIVITY**

The ability to induce IL-8 production by human PBMCs is measured.

**RESEARCH AREAS**

Cancer, Diabetes, Immune System, Inflammation, Neurobiology, Proliferation

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Magne D, Palmer G, Barton JL, Mezin F, Talabot-Ayer D, Bas S, Duffy T, Noger M, Guerne PA, Nicklin MJ and Gabay C. 2006. Arthritis Res Ther. 8(3): R80.  
 Towne JE, Garka KE, Renshaw BR, Virca GD and Sims JE. 2004. J Biol Chem. 279(14): 13677-113688. Kumar S, McDonnell PC, Lehr R, Tierney L, Tzimas MN, Griswold DE, Capper EA, Tal-Singer R, Wells GI, Doyle ML and Young PR. 2000. J Biol Chem. 275(14): 10308-10314. Johnston A, Xing X, Guzman AM, Riblett M, Loyd CM, Ward NL, Wahn C, Prens EP, Wang F, Maier LE, Kang S, Voorhees HH, Elder JT and Gudjonsson JE. 2011. J Immunol. 186(4): 2613-2622.

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