

## PRODUCT DATA SHEET

### Osteoblast Specific Factor 2 Human E. coli

**Cat. No.:** RD172045100**Size:** 0.1 mg**Source:** E. coli**Type:** Recombinant protein**Species:** Human**Other Names:**

Periostin, PN, OSF-2, POSTN, Fasciclin-I like, Osteoblast Specific Factor 2 (Pleiotrophin, PTN, Heparin-binding growth-associated molecule, HB-GAM, Heparin-binding growth factor 8, HBGF-8, OSF-2, Heparin-binding neurite outgrowth-promoting factor 2, HBNF-2, Heparin-binding brain mitogen, HBBM ), NCK

**Description:**

Total 671 AA. MW: 75 kDa (calculated). UniProtKB acc.no. Q15063. N-Terminal HisTag and Xa – cleavage site 23 AA.

**Amino Acid Sequence:**

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MGHHHHHHHHH HHSSGHIEGR HMRNNHYDKI LAHSRIRGRD QGPNVCALQQ ILGTTKKYFS
TCKNWKYKSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI DHVYGTLGIV GATTTQRYSD
ASKLREEIEG KGSFTYFAPS NEAWDNLDSD IRRGLESNVN VELLNALHSH MINKRMLTKD
LKNGMIIIPSM YNNLGLFINH YPNGVVTVNC ARIIHGNQIA TNGVVHVIDR VLTQIGTSIQ
DFIEAEDDLS SFRAAAITSD ILEALGRDGH FTLFAPTNEA FEKLPRGVLE RFMGDKVASE
ALMKYHILNT LQCSSESIMGG AVFETLEGNT IEIGCDGDSI TVNGIKMVNK KDIVTNNNGVI
HLIDQVLIPD SAKQVIELAG KQQTTFDLV AQLGLASALR PDGEYTLLAP VNNAFSDDTL
SMVQRLKLI LQNHILKVKV GLNELYNGQI LETIGGKQLR VFVYRTAVCI ENSCMEKGSK
QGRNGAIHIF REIIKPAEKS LHEKLGQDKR FSTFLSLLEA ADLKELLTQP GDWTLFVPTN
DAFKGMTSEE KEILIRDKNA LQNIILYHLT PGVFIGKGF EPGVTNLIKTT QGSKIFLKEV
NDTLLVNELK SKESDIMTTN GVIHVVDKLL YPADTPVGND QLEILNKLI KYIQIKFVRG
STFKEIPVTV Y
```

**Purity:**

> 90 % by SDS-PAGE

**Endotoxin:**

< 1.0 EU/μg

**Formulation:**

Filtered (0,4 μm) and lyophilized in 0.5 mg/mL in 0.05 M Acetate buffer pH=4.0

**Reconstitution:**

Add 0.1M Acetate buffer pH=4.0 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely at 37°C. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10μg/mL. In higher concentrations the solubility of this antigen is limited.

**Shipping:**

On ice. Upon receipt, store the product at the temperature recommended below.

**Storage/Stability:**

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

**Quality Control:**

BCA to determine quantity of the protein.  
SDS PAGE to determine purity of the protein.  
Endotoxin level determination.

**Applications:**

ELISA, Western blotting

**Note:**

This product is intended for research use only.